The Union Pacific Coal Company

WASHINGTON UNION COAL COMPANY

EMPLOYES' MAGAZINE

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SEPTEMBER 1924

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Washington Union Coal Company

EMPLOYES' MAGAZINE

Volume I | SEPTEMBER, 1924 | Number 9

THE SIZE OF THE VENTILATION JOB

The Summer Meeting of the Rocky Mountain Coal Mining Institute, held at Rock Springs August 7, 8, 9, was a success, it was both entertaining and informative, and the mining men and citizens generally put over the job of "showing" the city fellows how to do a real job.

The report of the meeting is set forth elsewhere in this issue of the Magazine; what we started to talk about was ventilation. From one of the papers presented we abstract the following, which measures the ventilation job in a new way. The figures are correct and will bear pondering over.

"Perhaps a simple illustration of what mine ventilation really means will be useful as a method of impressing us with its importance. Take, for example, a mine producing 250,000 tons of coal annually, the average iuput of the mine fan 100,000 cubic feet per minute, or 52,560,000,000 cubic feet per year. We will disregard water gauge, relative humidity and other factors iu our calculation, dealing with weight alone. The mean weight of air at temperatures ranging from zero to 95 degrees F. approximates .0774 pounds per cubic foot, therefore the weight of air forced through this given mine in a year totals 2,034,072 tons, equal to 8.14 tons of air to each ton of coal hoisted.

"Perhaps a simple computation of the volume of explosive gas (Methane or CH_4) that is generated in an average mine may he equally illuminating. Let us assume the measure of air input given in the foregoing example, where the fau handles 100,000 cubic feet of air per minute, equivalent to 144,000,000 cubic feet in each 24 hours. Again assuming an analysis of the return air shows a gas content of one per cent, we find that 1,440,000 cubic feet of gas is generated in the mine daily, a volume equal to the capacity of 450 standard 40-foot railroad box cars, filled to the roof. As CH_4 weighs approximately .0451 pounds per cubic foot, the day's outpouriug of gas would weigh 32.47 tons. You will bear in mind that this volume of gas is harmless when diluted in the proportions of one to ninety-nine, but as gas only weighs about 55 per cent of the weight of air its disposition is to rise to the top unless the scouring action of an adequate ventilatiou current sweeps it out of its gathering place, reducing it by diffusion to a harmless quantity. The foreging presentation of the magnitude of the ventilation problem may or may not be useful to you; doubtless many of you have properly weighed the job in times past. It might be well to size it up anew.

"All mine foremen know what bad track, poorly maintaiued, without proper surface and alignment, short turnouts, etc., means to their haulage; it is slowed down, the output decreases, costs run up. So it is with air, it also requires a proper travelling way; one reasonably free from short curves, abrupt elbows, falls or other restrictions. Again, the airway is a pipe, it must be tight or the contents will leak away before it reaches its destination. There is much in common between the natural laws that govern the movement of mine cars, of water in pipes and of air through air courses. These laws are simple, but they are immutable; ignore them, neglect them, and you pay the price."

WE ARE OVER THE HILL

The cover page of the August Magazine carries a graphic presentation of the daily production of bituminous coal for the years 1920, 1921, 1922, 1923 and 1924 to date.

Since then the production curve has climbed up a little and now bids fair to follow the 1921 line, though it is not expected that it will sag downward as did the 1921 line after October 25th.

To date we are approximately 68,000,000 tons behiud the average of the three years of great production, viz., 1918, 1920 and 1923, and 14,000,000 tons ahead of the average of the three years of tonnage depression, 1919, 1921 and 1922. The coal business is sobering up, and that is a good direction toward which to travel.

The Employes' Magazine is a monthly publication devoted to the interests of the employes of The Union Pacific Coal Company and Washington nion Coal Company and their families. It will contain items of current news, personal notes about employes and their families, together with articles dealing with the coal mining industry, the personal safety of the men engaged in mining a first consideration. Employes are not only invited but urged to write articles for the magazine, which should be typewritten on one side of the sheet only, addressed to Editor, Employes' Magazine, Union Pacific Coal Company, Rock Springs, Wyoming.

Good clear photographs suitable for reproduction are especially desired, all cartoons and drawings must be in black India ink. The magazine will be distributed free to all employes of The nion Pacific Coal Company and Washington Union Coal Company.

JESSIE McDIARMID, Editor.

SUMMER FIELD MEETING OF THE ROCKY MOUNTAIN COAL MINING INSTITUTE, HELD AT ROCK SPRINGS, WYOMING, AUGUST 7th, 8th, 9th, 1924

Nine years ago the mining men of the Rocky Mountain coal miniug region, comprising the states of New Mexico, Colorado, Utah, Wyoming and Montana, felt the need of an organization through which they could, in meeting and conference, discuss their problems and present to the coal mining world their views and purposes. This feeling culminated in the formation of the Rocky Mountain Coal Mining Institute, the organization through which, since that time, the ideas and suggestions of the mining men of the region have found opportunity for expression and discussion.

The eighteenth meeting of the Institute was held in Denver, Colorado, on the 13th, 14th and 15th of February, 1924. After this meeting the question arose as to a choice of location for the summer gathering. It has been the practice in the past to hold winter meetings in the larger cities such as Denver and Salt Lake, but it is the full intention of the Institute to cause summer meetings to be held in the field where the members may study actual miuing conditions and problems, thereby gaining information to take back to their respective districts.

In the Rock Springs, Wyoming, district field sections tributary to the parent body have now been in existence for over a year. Through the long winter months these field sections provide a means of interest and entertaiument to the local mining men, and their scope has broadened to the point where mining men of all divisions of coal mining work have become members. At each meetiug of the smaller field sections papers are presented and a talk is made by either a local man or a man from the outside, free discussion being invited and indulged in. The matter of a location for the summer meeting of the parent body of the Institute was brought to the attention of the Rock Spriugs field section, which is made up of representatives from Rock Springs, Dines, Lionkol, Reliance, Winton and Superior, and discussion of the subject brought the decision to invite the parent body to hold its meeting in Rock Springs. When the invitation was extended through Benedict Shubart, Secretary, our good friend warned us of the difficulty in handliug so large a body of visitors in a town the size of Rock Springs. However, the members had been careful to consider all points and the decision of the field section was final, hence, the acceptance of the invitation by the mining men of the Rocky Mountain states. The Rock Springs field section immediately began work on arrangements for the meeting. A mountaiu trout and sage chicken dinner was decided upon from the very first as a part of the entertainment. Committees were appointed on Fiuance, Accommodation, Program, Reception, Automobile Transportatiou, Bauquet, Dance, Field Day, Theatre, Decorations, Printing and Entertainment of Visiting Ladies.

The possibility of entertaining so large a body of visitors lay in the existence of the new Elks Home, a modern building of substantial architecture and ample size. This Home is an exceptional one for a mining community of the populatiou of Rock Springs and provides accommodations unsurpassed in many of the larger cities of the West.

Hunters and fishermen were recruited and organized, in order that there should be no shortage of game and fish when the time arrived for their need.

Assistance and advice were solicited from and freely given by Secretary Benedict Shubart of Denver and the Bureau of Mines Engineers, who came into the district three mouths iu advance of the meeting and proceeded to the preparation of men for First Aid and Apparatus work, as well as spending much time and effort in the arrangements necessary to the explosion demonstrations.

For three days immediately preceding the 7th of August, all committees met each night, and on the night of the 6th President Littlejohn of the parent body of the Institute, accompanied by Engineer Dan Harrington, arrived from Salt Lake City and assisted in the final preparations. The hunters reported the sage chickens all prepared and on ice, and the fishermen were reported enroute from the mountains, 125 miles north, with ample supplies of the speckled beauties.

As a perfect Wyoming morning dawned on August 7th, reception committees met all trains and conveyed guests to the Elks Home for registration. Registration completed, dinner and ball tickets, as well as theatre tickets, were provided and a representative of the Railroad inspected out-going transportation and arranged for proper reservatious.

At 1:30 on the afternoon of August 7th, the meeting was formally opened with an invocation by the Reverend Father Welsh of Rock Springs and an address of welcome by Mayor Bunning, in which the freedom of the city was teudered to the Institute through its President, Wm. Littlejohn.

President Littlejohn then took over the meetiug aud called for papers, which had been previously arranged for. A paper was given on rock dusting practice by Wm. Moorehead, Assistant General Superintendent of the Stag Canon properties of the Phelps Dodge Corporation at Dawson, New Mexico. As is generally known, this was the first property in the United States to carry out adobe dusting on a complete and very large scale. These properties have been pronounced by experts to be in as safe a coudition as any coal mines known.

The next paper entitled "What Do You Mean—Coal Dust?" was given by Engineer K. L. Marshall of the United States Bureau of Mines. Engineer Marshall's paper set forth in a readily understandable manner the little known and little appreciated 200-mesh coal dust which is present in every coal mine. It was explained that this very fine coal dust is similar in action to gas and that it and all dust below 20-mesh in size is particularly dangerous. Samples of dust were passed through the meeting and screens used in the separation, namely, 20-mesh and 200-mesh were also shown. A point not generally understood was made clear; i.e., that a 200-mesh screen means a screen containing 200 openings per lineal inch or 40,000 openings per square inch.

A spirited discussion followed the papers by Wm. Moorehead and Engineer Marshall, after which a paper by Captain Jack Smith, Safety Engineer for The Uniou Pacific Coal Company, brought to the attention of the meeting the present practices of the more advanced mining companies in the Franklin and Williamson Counties, Illinois, coal field. This paper, together with the discussion developed, brought very clearly to the Rocky Mountain miniug people the fact that a very fine rock dust is imperatively essential to the full protection of mines from the fine coal dust hazard.

The next paper was presented by Superintendent Thos. Foster, of Reliance, Wyoming, on mine fires experienced in No. 1 Mine at Reliance. This paper and

Meeting of Rocky Mountain Coal Mining Institute, Rock Springs, Wyoming, August 7th, 8th and 9th, 1924.

1. Mine Rescue Apparatus Men on march to field.
2. First Aid Teams marching to field.
3. Teams in action, Wyoming State First Aid Contest.
4. Work warms up at Wyoming State First Aid Contest.
5. First Aid Contest won by Team from Mine No. 2, Cumberland.
6. Girl Scouts giving demonstration in First Aid.
7. Explosion of 25 pounds of coal dust from Rock Springs mines by electric arc.
8. Explosion by two pounds of black powder in blown-out shot igniting 300 pounds of coal dust in a 70-foot gallery.
9. No explosion could be secured when the coal dust was mixed with shale dust in the proportion of 40% and 60%.

that of Superintendent George Brown of Cumberland on Bumps had to pass without sufficient discussion because of the little time left for the session.

A paper which set everyone thinking was presented by President Eugene McAuliffe of The Union Pacific Coal Company, and the afternoon session closed to allow the guests to prepare for the banquet scheduled at 6:30 at the Elks Home.

The visiting ladies attending the meeting were not forgotten. A ladies' entertainment committee provided an automobile tour of the surrounding country in order to allow the guests to gain some conception of the environment. On Friday the 8th, a luncheon was provided by the ladies' committee, being held at 1:30 P. M. at the Union Pacific Club in Wardell Court, where all expressed appreciation of the very able catering.

Thursday night at 6:30 the guests gathered in the Elks Home, and before making their entrance to the dining hall paused to inspect the 14-pound Rainbow trout placed for view frozen in a cake of ice in the hall-way of the Home. As the 337 guests stood in the Banquet Hall, grace was pronounced by Reverend R. Burt of the Methodist Pastorate, and the dinner was on. Speedy service of hot food was handled by the Girl Scout organization, and with singing and music by the Rialto Orchestra between courses, the sage chicken, trout and other good foods disappeared. At the guest table visiting notables, including Mine Manager Wm. Hann of the Washington Union Coal Company, Tono, Washington, enjoyed themselves, and at the conclusion of the dinner Toast Master Geo. B. Pryde, Vice-President and General Manager of The Union Pacific Coal Company, rose and gave the meeting another Scotch story. President Littlejohn of the Rocky Mountain Coal Mining Institute responded with a glowing tribute to ladies, many ladies, lots of ladies, all the ladies, and aroused enthusiastic cheers from his audience. Among others responding were President Augustine Kendall of the First National Bank, Engineer S. W. Farnham of the Goodman Manufacturing Co., Chicago, and Dr. Reed, Assistant to the Director of the U. S. Bureau of Mines.

The toasts ended on schedule at 9 P. M. and the members proceeded to the Ball Room on the second floor of the Home, where an orchestral and vocal program was provided. Girl Scouts of the new troops formed at Rock Springs during the past six months entertained with songs and evolutions learned during the camp outing, from which they recently returned. The Scouts then proceeded to impersonate a number of the Institute members, which drew forth much merriment and appreciation from the spectators. As Scotch was the official language of the Institute we feel sure that our good friends enjoyed "seeing themsel's as ithers see them." Many were amazed at the clever impersonations developed as the result of two hours observation of the afternoon meeting. Dancing completed the evening, and as the Home was made use of by all members many old friends met and many new friendships were formed. Other meetings were held on street corners, in restaurants, soda fountains, hotel lobbies and hotel rooms, and so the first day ended.

On Friday morning, the 8th of August, the report of the Safety Committee was presented and accepted. This report has been in formation for over two years and agreed results have been difficult on account of the variance in opinion which arose over a number of the recommendations.

Next in order was a trip to No. 1 Mine, Reliance, to view the loading machines, and 16 automobile loads proceeded from Rock Springs to the mine, some 7 miles distant. Fifty-six people were taken underground on the Greet Safety Man-trip and were conducted 3,000 feet on a cross entry to a place where loading machines were in operation. Straw hats, light colored summer clothing and high heeled shoes were in evidence as never before underground in this part of the Rocky Mountains. The party was returned to town without accident and all concerned in their safety breathed more freely. Other trips were made to the spotless central power plant north of the main line, and at 2 o'clock in the afternoon the meeting was again called to order for the symposium on coal loading machines. Owing to the fact that some of the papers were illustrated by stereopticon slides, the manager of the Rialto Theatre was solicited to allow the meeting to be held in that building. To this the manager readily agreed and the entire symposium was held in the Theatre where the pictures were thrown on the screen, adding greatly to the information presented. A number of men intimately interested and associated with the development and operation of modern coal loading machinery presented their views to the meeting. Particularly noticeable was the frankness with which operating costs and results were presented. Among those presenting information were Charles Gottschalk of Evansville, Indiana, S. W. Farnham of Chicago, T. H. Butler of Hanna, T. A. Stroup of Clear Creek, Utah, and Eugene McAuliffe of Omaha.

At 7 o'clock in the evening of Friday the 8th, a "Days of '49" show was open to visitors in the Elks Home. All the games of the Frontier days were running, and with appropriate music, open bar and an active sheriff, action and merriment reigned supreme. Close observance revealed in the sheriff our President, Wm. Littlejohn of Castle Gate, Utah, who vigorously pursued his duty in arresting wrongdoers. George Murphy of Spring Canyon, Utah, was haled before the court on a charge of drunkenness brought about by a too liberal indulgence in less than ½ of one per cent beverage. Bill Brennan of Dawson, New Mexico, also stood before the bar of justice.

At 9:00 P. M. the guests were entertained at the Rialto Theatre, one of the features shown being a reel of pictures taken by Engineer H. I. Smith of the United States Bureau of Mines, portraying the development of rock dusting practice in the Rocky Mountain region. Small meetings were held throughout the evening at various points about town and there was much verbal mining of coal. After the evening trains arrived, the First Aid and Mine Rescue Teams appeared on the streets, and to anyone who has seen these men in action, their appearance lent a serious tone to the occasion.

On Saturday, August 9th, at 9:30 A. M. came the parade to the First Aid field, in which all contesting teams took part. The automobile transportation committee was on hand with ample means of handling the crowd and the contest of the First Aid teams was started without delay. Of 18 teams participating, three tied for the finals and the contest was won by the team from Cumberland No. 2. The three teams in the tie were No. 2 Cumberland, Hanna, and No. 1 Team of No. 4 Mine, Rock Springs, with a score of 293 each out of a possible 300. In the working out of the tie, No. 2 Cumberland won first place and No. 1 Team of No. 4 Mine, Rock Springs won second place, scoring 96 and 94 respectively out of a possible 100.

The roll of the teams winning stands as follows:

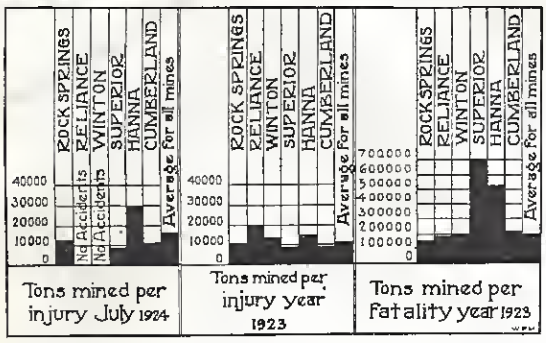
Cumberland No. 2	**Rock Springs No. 1 of Mine 4.**
Lyman Fearn, Captain.	Geo. Kirkwood, Captain.
T. H. Robinson.	Ronald Noble.
F. H. Buchanan.	Jas. W. Easton.
Chas. Clark.	Matt Marshall.
Henry Goddard.	John Sorbie.
Chas. French, substitute.	Aaron Denely, substitute.

The beloved Billy Ryan was on hand as master of ceremonies and conducted the presentation of the cups and medals to the winners. In the afternoon 7 teams participated in the Mine Rescue Contest, mounting their apparatus in good form before the crowded grand stand; thence proceeding across the field to carry on their work in the smoke filled gallery. This appear-

(Continued on page 8)

Make It + Safe

W.P.M.



THE JULY ACCIDENT GRAPH

An analysis of the above graph for the month of July shows many gratifying results. First with a production of 190,000 tons of coal from the six camps with only 12 working days there were no fatalities and but twelve accidents reported, all of a trivial character, and in which the combined loss of time of the men injured was relatively small; second, falls of top coal and rock, the greatest menace with which the miner has to contend and the direct cause of the majority of accidents, were responsible for but one accident report, this being a slight injury to the eye. This shows that there is a marked improvement where it is most needed, namely, at the face, and that each man is giving the roof and face condition the careful thought and inspection that it demands; third, two camps, Reliance and Winton, show no accidents for the month. This is the second successive month that Winton has had no injuries and the second month during 1924 that Reliance has had no injuries to report. These, indeed, are enviable records.

Compared with the previous month, there is a marked improvement noticeable at every camp. June, with a production of 146,000 tons, had 18 accidents, one of which was a fatality, with a general average of 8,119 tons mined per accident. July production amounted to 190,000 tons with twelve injuries, and an average for all camps of 15,830 tons mined per injury.

LET'S KEEP THE GOOD WORK UP.

WHY NOT KEEP WELL ALSO?

In the campaign to reduce accidents and the incident loss of time to the injured employe, an important subject that usually receives but little attention is the health of the employe. Safeguards and precautions can often be placed so that the accident hazard can be reduced to a minimum, but the sickness hazard is one to which each man must necessarily hold his own solution.

The introduction to Miners Bulletin No. 20 of the U. S. Bureau of Mines, "How a Miner Can Avoid Some Dangerous Diseases," is worthy of repetition.

> "The 'safety first' movement has become firmly established at most mines and needs no argument to defend it or to show why it was needed. The placing of danger signals, putting guards or bars around open places, care in the handling of explosives, and the many other precautions of 'safety-first' work are all plain commonsense acts that should not require much explanation. That 'an ounce of prevention is worth a pound of cure' is well demonstrated in the results obtained by the 'safety-first' movement in preventing accidents, suffering, and death.
>
> "To impress the miner with the need of taking similar care to keep well is more difficult, because the need of such precaution is not so readily seen.
>
> "The miner, in common with other workers, has two dangers threatening him nearly all the time. One is injury and the other is sickness. Either one means a loss of time, loss of money, suffering for him, and perhaps for his family, and even death, with a widow and children left without income. Miners are coming to realize that most accidents are unnecessary, that they can be prevented, and the 'safety-first' movement has lessened them enormously. But most miners do not know that sickness is just as preventable as accident—often more so. Many risks incident to a miner's work can not entirely be done away with, and some accidents will happen in spite of the utmost care; but as regards some of the diseases that affect miners there need be absolutely no risk. If proper care and attention are paid to the means of preventing sickness, it can be avoided as easily as accidents.
>
> "In accidents the cause and the remedy are often easy to see. For example, a bar which was supposed to be a guard for an opening is left down; a man walks by, falls in, and is hurt. The cause of the accident, the result, the remedy, and their relation one to another are plain. In many cases of sickness, the cause is not evident to most men, because they do not stop to consider how the disease is spread and fail to realize the case with which it may be prevented. Once this is understood, the problem of preventing sickness will be simplified, as has been the problem of preventing accidents, and improvement will follow preventive measures in this case as surely as it has in the other.
>
> "The 'safety-first' movement has made the miner feel that each man is responsible for not only his own safety, but the safety of all around him. The same principle is true in preventing sickness. Each person is responsible for not only his own health, but the health of those around him. When he neglects or breaks one of the commonsense rules of health he endangers not only himself, but his family and the men who work near him."

WHAT HAPPENED TO US IN JULY

During July the following accidents were reported from the various camps. In most of the cases if the same amount of thought had been given before as was given after the accident, the man most affected would have lost no time, inconvenience or pain.

Think now and beat the doctor out of a job.

Dock Boss: Was standing on the side of a railroad car picking rock when the car dropper came down the yard with six empty cars. The brake did not hold, causing cars to bump the railroad car he was standing on. He was thrown from the car, striking his head on concrete foundation of tipple.

Loader: Was sharpening a cap piece which was resting on the ground. A long handled axe, which was being used, caught in his leg, causing blade to descend on left hand causing bad cut above thumb.

Miner: While pulling down loose rock a piece fell, striking him on back of hand, severely cutting knuckles.

Miner: Was running his car down room. Top coal on car caught cross bar, knocking off considerable coal. He received an injury of the eye from a small piece of the flying coal.

Loader: Was running a car down his room with sprags and the car stopped. He was taking the sprags from the wheel, resting his hand on top of the car with his elbow toward a prop near the track. Car started, and his arm was caught between prop and car, badly spraining wrist.

Driver: Was riding on the front end of a loaded trip. His horse stepped to the high side of track, allowing tail chain to become slack and catching the end of a tie. As tail chain tightened his leg was squeezed between chain and car.

Miner: While loading a car, in some manner hurt his back.

Machine-runner: Pulling a car from a room switch. Car de-railed, catching his foot.

Track-layer: Was cutting a tie and struck fish plate with hammer. A piece of the bolt flew off, striking him in the eye.

Timberman: While lifting upon a de-railed car, wrenched his back.

Motorman: Was pushing loaded car out of back entry. Coal on top of car caught on roof, catching his finger between coal and car, causing a severe laceration.

(Continued from page 6)

ance of apparatus equipped men has, to those intimately acquainted with the industry, a very sinister meaning and it is well that they be brought before the public at every opportunity. The team from Sublet won the Apparatus Contest, and the presentation of the cups was made by Dr. Reed, Assistant to the Director of the United States Bureau of Mines. Wyoming rejoices in the victory of the Sublet team from the Kemmerer Coal Company Mine No. 5, and we feel that the time is not far off when all who are engaged in the coal mining industry will have taken advantage of the training in First Aid to the injured as well as the younger men in the Mine Rescue Apparatus work.

The roll of the team from Kemmerer Coal Company No. 5 Mine follows:

H. F. Straley, Sr., Captain.
George Morrison.
George Hanisko.
H. F. Straley, Jr.
C. M. Groutage.

In the meantime, as a demonstration of the hazards incident to present day coal mining, two transformers were subjected to an overload and the dangers incident to such a practice were quickly evidenced by the fuming and smoking set up. One can readily imagine what over-heated transformers mean in the confined spaces of a coal mine. Next came a demonstration for which long and careful preparation had been made. For three weeks Engineer Marshall of the United States Bureau of Mines Car 2, assisted by a number of men from the local mines, had been experimenting with the creation of a dust explosion by an electric arc. Less than 300 pounds of 60-mesh dust was placed in an oil can and a jet of compressed air introduced to project the dust in a thick cloud. The opening of a circuit breaker by Engineer Marshall threw a small arc which resulted in an immediate explosion in a very spectacular manner of the coal dust in a chamber 7'x8'x12'. A second demonstration was conducted in which coal and shale dust were mixed in the proportion of 40 and 60 parts respectively, the mixture being projected into the atmosphere by means of compressed air. No explosion could be created with this mixture, thus bearing out the assertion of the Engineers of the Bureau of Mines that 60% of shale dust is necessary to make the dust conditions in the Rock Springs mines safe. A blown-out shot was next demonstrated throughout the entire length of a 70-ft. gallery. Coal dust to the amount of 300 pounds was placed along shelves in the gallary, and at the detonation of the cannon the travel of the flame wave was very evident, the resultant force causing the entire gallery to heave, rend and collapse. It can hardly be conceived of anyone witnessing such a demonstration leaving the field with any thought in mind other than that the coal dust in Wyoming is wicked and dangerous.

As the evening trains departed from Rock Springs on Saturday the number of guests dwindled, until just before 1 o'clock in the morning the last guests ran hurriedly to catch the last train and the meeting, which all were kind to say was most successful, came to an end.

Pleasant memories will be entertained by both the Rock Springs people and their guests for many years as the result of the three days visit. The warm hearts and fine friendships of the little community are not to be forgotten in the departure of the trains, and the Rocky Mountain Coal Mining Institute membership feels that it has received and will sustain new strength and enthusiasm which will bear abundant benefits to its members in the years to come.

HEARD AT THE TOP OF THE GRAND STAND, FIRST AID MEET

"A-mood nuts—Amooood nuts."

"Elias Daniels is official water boy."

"Cumberland again!"

"That would be a good thing for your wife to learn—she could tie you up evenings."

"Doc Chambers thinks this is easier than fishing?"

"WHO'S the contestant in khaki who dances so beautifully during intermissions?"

"Frank P. is chief groaner for the patients—with his big horn."

"Whop, he made one there!"

"Cumberland again."

A Girl Scout: "There's our Mr. Marshall, isn't he a dear?"

"The only knocker in the parade was Tony Ritson—he packed a hammer."

"Wonder if those ice-cream sandwiches are like the 'mark' sandwiches mother used to make."

"The Drummer slipped a note in a march—call a F. A. team."

"Aren't the Cumberland men handsome?"

"The Band is playing 'Chicago Tribune March'—why not an Employes' Magazine One?"

"Mr. Gibson's digging coal in a carbide can—dulled his pick the second swipe at that."

"Let's get some pop."

"Pierson of Midwest does a shimmy between problems—perhaps we'd better ask the Band to jazz less."

Girl Scouts: "Yea, Marshall! Yea, Sullivan! Yea, Yea, Marshall! Sullivan!"

"A Reliance man tripped on one of Rock Springs' street blocks, had to call for spirits of ammonia. We need a traffic cop or a First Aid Team."

A Girl Scout: "Goodness, if I'd seen Mr. Jack Smith at this I could have taken him off by jumping all over the stage at once. Every time I look out he's somewhere new."

Engineers' Department

WPM.

SLOPE HOISTING PROBLEMS

D. C. McKeehan

In the April number of our magazine appeared an article on electric locomotives, and it mentioned that it requires approximately 30 pounds pull to haul one ton of train weight on level track. Locomotive haulage in our western mines is limited to entries and haulage ways that lie practically level. When the coal seams lie at an angle to the horizontal it is necessary to hoist the cars up the incline to entries, haulage ways or onto the mine tipple.

In order to calculate the horsepower of the hoist to haul the cars, requires the application of higher mathematics for exactness, but as there are few workmen who are versed in the subject, a simple and sufficiently accurate method for ordinary purposes, which is readily understood, will be used here.

If the incline rises 10 feet in 100 feet, it is termed a 10 per cent pitch or grade and the angle between the horizontal and the incline is about 6 degrees.

Now, while it took 30 pounds pull to haul one ton on level track it requires a pull or rope tension of 208 pounds to hold one ton on a 6° pitch.

On a 30° pitch, corresponding to a rise of about 58 feet in 100 (58 per cent), a pull of 1000 pounds is required. That is, the pull will equal one-half of the load.

The per cent of grade, corresponding angle in degrees and rope pull for one ton of 2,000 pounds is tabulated below. The nearest whole number is taken.

Grade in per cent	Angle in degrees	Rope Pull
5	3	104
10	6	208
18	10	348
46	25	846
58	30	1,000

Next comes the method of calculating the horsepower required to hoist the load.

To determine horse-power, multiply the weight times the distance raised in one minute and divide the product by 33,000, one H. P. being equivalent to raising 33,000 pounds one foot in one minute. For example: A weight of 2,000 pounds is raised 500 feet in one minute. Then, $\frac{2,000 \times 500}{33,000} = 30.3$ H. P.

In this case the 2,000 pounds represents the rope pull and 500 feet the rate of speed. This is true for a vertical lift.

When hoisting on a slope or incline it is necessary to convert the weight of all the cars and coal into terms of rope pull for the particular pitch. The amount of rope pull in pounds multiplied by the speed in feet per minute and divided by 33,000 will give the theoretical horse-power.

A practical example will follow:

Required, the horse-power to hoist a 10-car trip up a 6° (10 per cent) pitch at a rate of 1,500 feet per minute? Each car weighs 1,800 pounds and contains 2 tons of coal.

Solution: Weight of cars 18,000 pounds.
Weight of coal 40,000 pounds.
Total trip weight 58,000 pounds or 29 tons.
29 tons times 208 (rope pull for one ton on 6° pitch)=6,032 pounds rope pull.

$$\frac{6,032 \times 1,500 \text{ (Speed in feet per minute)}}{33,000} = 274 \text{ H. P.}$$

In the foregoing, the matter of friction of the cars, drag of the hoist rope on the slope and rollers, and friction of hoist bearings has not been taken into account. For these we will add 25 per cent so as to have ample power at all times.

Then $\frac{274 \times 125}{100} = 342$ Horsepower.

The foregoing problem represents very closely the conditions of hoisting at No. 4 Mine, Rock Springs, which utilizes a 400-H. P. hoist.

Included with the employes to whom this magazine will be distributed are about 90 men who operate hoists. It is hoped that the simple method of handling such problems here given, will be an incentive to men who are in close touch with this work to make themselves more familiar with the details of calculating similar problems by application and study, and that they will realize in so doing that "The secret of success is constancy to purpose."

METHOD FOR PASSING SURVEY AROUND OBSTACLES

By O. G. Sharrer

In running survey lines it quite frequently happens that obstacles such as buildings, trees, etc., are encountered, which make it necessary to devise some means of carrying the line around the obstacle through territory which is accessible.

Three simple methods are here described, each of which suits certain conditions of ground.

Method No. 1

By series of right angles. In Fig. 1 the survey line A-B intersects a building at point "X." The problem then is to locate the line E-F, which is a continuation of A-B. With instrument at "B" plates set to read 0°00′ back sight on "A" turn angle ABC, making it exactly 90 degrees. This angle should be turned twice to eliminate possible errors.

Now along the line B-C measure a distance which will clear the building, 60 feet in this particular case. Measure this distance very accurately, as the correctness of the solution depends definitely on this measurement.

Having completed this measurement, move the instrument to point "C" resetting plates to 0°00′ and taking back sight on point "B" turn angle BCD, making it exactly 90 degrees and reading twice for check.

Along the line C-D measure any distance that will clear building, in this case 130 feet establishing point "D."

Move instrument to point "D" and with plates set at 0°00′ back sight on point "C" turn the angle CDE, making it exactly 90 degrees. Along the line D-E measure a distance equal to B-C very carefully, establishing point "E" which is on line A-B prolonged.

Move instrument to point "E", and with plates set to read 0°00′ back sight on point "D." Turn angle DEF, making it exactly 90 degrees. The line E-F is now on the line of A-B prolonged, unless some error either in instrument work or measuring has been made.

Since the line C-D equals the line B-E, the distance C-D can be recorded as a part of the survey line ABEF, which simplifies calculations.

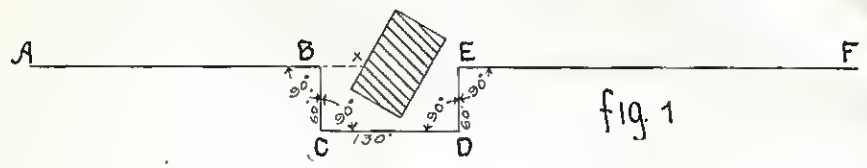


fig. 1

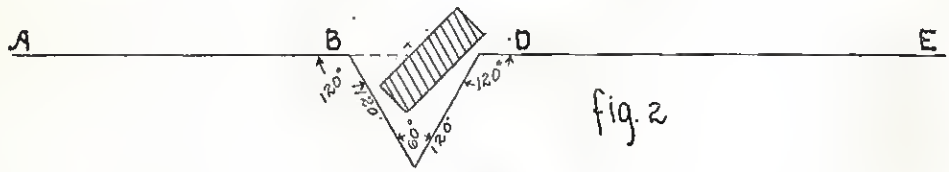


fig. 2

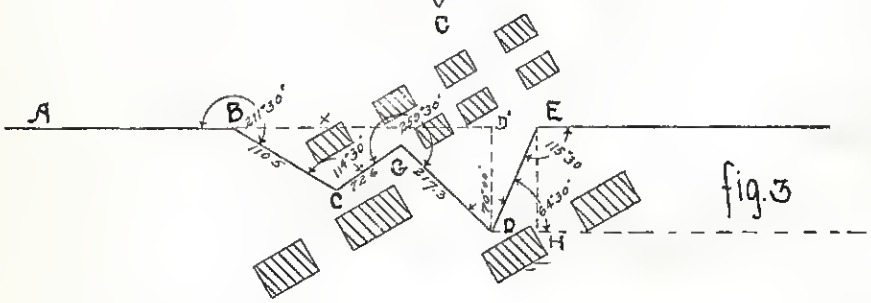


fig. 3

Station	Angle	Bearing	Distance	Partial Departure	Partial Latitude	Total D	Total L	Remarks
ABC	211°30'	N 31°30' E	110.5	57.74	94.22	+57.74	+94.22	
B.C.G.	114°30'	N 34°00' W	72.6	40.60	60.19	+17.14	+154.41	
C.G D	259°30'	N 45°30' E	217.3	154.93	152.31	+172.13	+306.72	
G.D.E	70°00'	N 64°30' W	190.70					Closure
D.E.F								Line A-B

O.C.S.-24

fig. 4

Method No. 2

In the second method shown in Fig. 2 the offsetting is done by means of an equilateral triangle having each of its angles 60 degrees, and all three sides equal.

With instrument at "B" and plates set to read 0°00' turn angle ABC, making it 120 degrees, measure a distance along the line B-C which will clear the obstacle, in this case 80 feet, establishing the point "C." Move instrument to "C" and turn the angle BCD, making it exactly 60 degrees and measure the line exactly 80 feet or the same as line B-C, point "D" is now on the line A-B prolonged.

Move instrument to "D" and turn angle CDE, making it exactly 120 degrees, this determines the line D-E which is the line A-B prolonged.

Since the line B-D equals the line B-C, it can be so recorded for calculations.

Extreme care must be taken in making all measurements as the accuracy of the results depends almost entirely on the measurements.

These two methods are to be preferred where the obstacles to be passed are not too extensive, and where the ground is not too broken.

Method No. 3

In passing very extensive obstacles or where the ground is badly broken, a third method called "The Method of Latitudes and Departures" is used.

In Fig. 3 the line A-B is shown intersecting a series of buildings at "X."

With the instrument at "B" run by random points to point "D" or until far enough beyond the obstacle to re-establish the line A-B prolonged, or E-F. The position of line D-E can usually be found approximately without any calculations after some experience.

It now remains to calculate the position of point "E" and lay off the line D-E, which intersects A-B prolonged at "E."

With instrument at "D" lay off the line D-E, so that it will intersect the line A-B prolonged.

In Fig. 4 a method of recording latitudes and departures is shown.

First assume the course of line A-B to be due north and calculate the bearings of the random line from this point, entering the results as shown in Fig. 4.

Now, using the method explained in a previous article, calculate the latitudes and departures of each

(Continued on page 12)

ROCK DUST STEMMING VS. AIR SPACING[1]

A Report of Recent Tests Made at the Black Hawk Mine of the United States Fuel Co., Hiawatha, Utah, by H. Peterson[2], Explosives Engineer

Since cushioned blasting has been found effective in producing better lump coal than is otherwise obtained, a good deal of discussion has centered around the question: Is this cushioning best obtained by leaving an air space around the powder or by using rock-dust stemming?

With the assistance of E. E. Jones, Chief Company Mine Inspector, and Mr. McArthur, Resident Engineer, some tests were recently made by the author at the Black Hawk Mine of the United States Fuel Company at Hiawatha, Utah, to compare these two cushion methods.

As we could not get rock dust of sufficient fineness for stemming, we used cement as a substitute. The dummy cartridges, 15" long and 1⅝" in diameter, were covered with ordinary wrapping paper.

A DIAGRAM OF THE ROCK-DUST STEMMING METHOD

In this case the shot was cushioned by filling the bore hole with dummy cartridges made of wrapping paper filled with cement. Rock dust, 50 per cent of which has passed through a 200-mesh screen, is really required by the rock dust method, but in these tests, as it could not be obtained, cement was used as a substitute. The dummy cartridges were 15" long and 1⅝" in diameter. They were pushed back to the powder and not tamped. Some air space was left around the explosives cartridges and around the stemming.

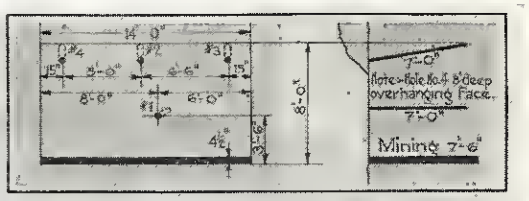
The powder charge was first pushed back to the bottom of the bore hole, which had been drilled 1¾" to 2" in diameter. The cartridges were not tamped, but were left loose with an air space around them. The dummies were then placed in the holes and pushed back to the powder, the bore hole was filled with them to the collar, without tamping.

In the air-spacing tests, the powder was loaded in the same way as above. Clay dummy cartridges here took the place of the cement ones, and after filling 24" of each bore hole, the balance was then tamped, the pressure being increased gradually towards the collar.

A DIAGRAM OF THE AIR-SPACE METHOD

The cushioning was here obtained from the air space around the untamped cartridges and by filling 24" of the bore hole with clay dummy cartridges that were not tamped against the powder but merely pushed up lightly against it. The balance of the hole was then tamped, the pressure being light at first and increasing towards the collar.

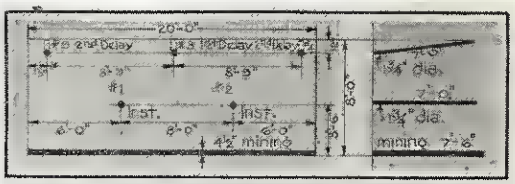
These tests, no matter which method of cushioning was used, gave the most perfect shots I have ever seen, and Mr. Jones, who has had long experience shooting coal in the Utah fields, also said that he had never seen work to equal it. Except for the usual machine cuttings there was practically no slack; from both ribs and roof the coal was sheared off as cleanly as if it had been cut away. Another advantage of cushioning and one which not only gives a big saving in time and labor, but also contributes towards a higher percentage of lump, was the rolling of the coal out and away from the face. In none of the tests, furthermore, was the coal pulverized in the back of the bore holes where the powder was put, as is usually the case; the mark of the drills, in fact, was almost as pronounced as if black powder had been used.



CROSS-CUT IN THE BLACK HAWK MINE.

Here the holes were charged as follows: No. 1 – 2 sticks of Red H.C.L.F. 1½"x 8", No. 2 – 2½ sticks, No. 3 – 2½ sticks; No. 4 – 3 sticks. These shots gave an average of 5.6 tons coal per pound of powder.

As far as the respective merits of the two methods are concerned, the tests gave no conclusive proof that either one of them was superior to the other in the matter of powder economy or a greater percentage of lump coal. The fact that air spacing is easier for the miner and that under present conditions it is somewhat difficult for mine operators to get hold of rock dust, 50 per cent of which will pass through a 200-mesh screen, may be taken, if desired, as an argument for the first method. It should be remembered, however, that for the mine that is equipped with facilities to produce the rock dust or has a convenient and inexpensive source of supply of this material, the rock-



ROOMS NO. 5 AND NO. 6 IN THE BLACK HAWK MINE.

The holes were charged as follows: No. 1 – 2 Sticks of Red H.C.L.F. 1½"x 8"; No. 2 – 2 Sticks of Red H.C.L.F. 1½"x 8"; No. 3 – 3 Sticks, No. 4 – 2½ Sticks; No. 5 – 2½ Sticks. The results of shots made in these rooms averaged 9.33 tons of coal per pound of powder.

dust stemming possesses the decided advantage of providing a remarkable safety feature; that is, the rock dust, by floating in the air and mixing with the coal dust after the shots have been fired, greatly lessens the danger of underground explosions.

The conditions under which the different systems were tried out were, of course, identical. The tests at the Black Hawk Mine were made possible through the kindness of R. M. Magraw, the General Superintendent, who supplied us with the opportunity of trying out the two methods of shooting, and, throughout the experiments, showed himself keenly interested.

I would also like to thank J. B. Forrester, Chief Engineer of the Black Hawk Mine; E. E. Jones, Chief Company Mine Inspector; J. Taylor, Mine Foreman, and A. Dennison, Acting Mine Superintendent, for the courtesies and assistance they extended to us during our work.

[1]Published by permission of "The Explosives Engineer", the article having appeared in the July, 1924, issue of that magazine.

[2]Expert powder demonstrator for the Hercules Powder Company.

The Magazine will publish monthly at least one short, inspiring poem. To each boy or girl under sixteen who obtains a certificate from their school teacher, certifying that they have committed to memory six of the poems published in 1924, a prize will be given.

THE STAR SPANGLED BANNER

Oh! say, can you see, by the dawn's early light,
What so proudly we hail'd at the twilight's last gleaming,
Whose broad stripes and bright stars through the perilous fight,
O'er the ramparts we watch'd were so gallantly streaming?
And the rocket's red glare, the bombs bursting in air,
Gave proof through the night that our flag was still there!
Oh! say does that star-spangled banner yet wave
O'er the land of the free and the home of the brave?

On the shore dimly seen through the mist of the deep,
Where the foe's haughty host in dread silence reposes,
What is that which the breeze o'er the towering steep,
As it fitfully blows, half conceals, half discloses?
Now it catches the gleam of the morning's first beam,
In full glory reflected, now shines on the stream;
'Tis the star-spangled banner. Oh! long may it wave
O'er the land of the free and the home of the brave.

And where is that band who so vauntingly swore,
'Mid the havoc of war and the battle's confusion,
A home and a country they'd leave us no more?
Their blood has washed out their foul footsteps' pollution;
No refuge could save the hireling and slave
From the terror of flight, or the gloom of the grave,
And the star-spangled banner in triumph shall wave
O'er the land of the free and the home of the brave.

Oh! thus be it ever, when freemen shall stand,
Between their loved home and the war's desolation;
Blest with victory and peace, may the Heaven-rescued land
Praise the Power that made and preserved us a nation.
Then conquer we must, when our cause it is just,
And this be our motto, "In God is our trust."
And the star-spangled banner in triumph shall wave
O'er the land of the free and the home of the brave.

The "Star Spangled Banner" was written by Francis Scott Key; born in Frederick County, Maryland, August 8, 1780; died at Baltimore January 11, 1843. The author, a lawyer by profession, wrote the outlines of this inspiring song during the bombardment of Fort McHenry, near Baltimore, by the British fleet—the poet at the time a British prisoner on shipboard.

IF I WERE A BOSS

By Edgar A. Guest

If I were boss I would like to say;
"You did a good job here yesterday."
I'd look for a man, or a girl, or boy,
Whose heart would leap with a thrill of joy
At a word of praise, and I'd pass it out
Where the crowd could hear as I walked about.

If I were the boss I would like to find
The fellow whose work is the proper kind;
And whenever to me a good thing came
I'd ask to be told the toiler's name,
And I'd go to him and I'd pat his back
And I'd say: "That was perfectly splendid, Jack!"

Now a bit of praise isn't much to give,
But it's dear to the hearts of all who live;
And there's never a man on this good old earth
But is glad to be told that he's been of worth,
And a kindly word when the work is fair
Is welcomed and wanted everywhere.

If I were a boss, I am sure I should
Say a kindly word whenever I could;
For the man who has given his best by day
Wants a little more than his weekly pay,
He likes to know, with the setting sun,
That his boss is pleased with the work he's done.

(Continued from page 10)

point in the random line, checking the calculations very carefully.

In this particular case it shows point "D" to be 306.72 feet north and 172.13 feet east of point "B".

Referring to Fig. 3 we have the right angle triangle DEH, with side E-H (172.13) known. From survey we also know bearing of line D-E (N 64°30'W), and as line E-F is an extension of line A-B, or assumed due north line the angle EDH or DEH is determined.

Using formula: Side D-E equals $\frac{\text{Side E-H}}{\text{Sine EDH}}$, or 190.70,

also side D-H equals $\frac{\text{Side E-H}}{\text{Tangent EDH}}$ or 82.10 feet.

Now since the line B-D' equals the total latitude of point "D" or 306.72 feet and the line D'-D equals the total departure of point "D" or 172.13 feet, and this line equals line E-H, and after line D-H has been calculated it will equal line D'-E and this must be added to line B-D' to give total length of line B-E.

Measure the distance 190.70 carefully along the line D-E establishing the point "E", which is on A-B prolonged.

Move instrument to "E" and turn the supplementary angle to EDH, or the difference between 64°30' and 180°00'. This gives the angle DEF as 115°30' which puts the line E-F on the course of A-B prolonged.

This method is also used to establish heading centers for manways and return airway in driving up the pitch parallel to main slopes.

Betty Jo Smith, Daughter of Mr. & Mrs. Archie Smith, Superior.

Margaret Soltis, Grand-daughter of Mr. & Mrs. William Matthews, Superior.

Mother's Department

THE HARDEST JOB IN THE WORLD

Colliers Weekly of August 9th carries an article by Harold Cary with the above title, at the end of which is given thirteen rules for rearing happy children, formulated by Doctor Jessie Taft, who is in charge of child study for the Children's Aid Society and the Children's Bureau of Pennsylvania. We quote the thirteen rules.

1. Remember that the child who is really happy and active and interested all the day long, the child who is genuinely loved and approved of, who has companions and interesting work and play, who gets satisfying food and enough sleep, whose physical handicaps are corrected, seldom, if ever, develops or retains serious bad habits.

2. Have a thorough physical examination, to be sure that there are no causal factors here.

3. See that the physical hygiene is all it should be; that the child has the right food, sleep, fresh air, play, clothing, etc.

4. Have a mental examination, if possible, to determine the child's native intelligence.

5. Get the right attitude yourself. See that the child gets no sense of condemnation or inferiority from you.

6. Do nothing to fix attention on the habit or put the child under emotional strain regarding it. If you talk, talk in a matter-of-fact way.

7. Realize that a cure is indirect. Don't rely on fear, punishment, or rewards. Try to find out why the child is not developing. Seek for causes of dissatisfaction or lack of outlet in the environment.

8. Be alert and ready to alter environment instead of trying to alter the child.

9. Never use punishments which mean that the child has long periods of inactivity in which to daydream. Never send the child to bed in the daytime.

10. Emphasize outdoor play, constructive play with blocks, tools, boxes, sand group play, organized play. Develop interest in the child's own gardens, chickens, or other project which he manages himself and from which he gets returns.

11. Visit his school, see if something is wrong there, engage the teacher's sympathetic interest, but don't "tell on the child" unless the teacher is an unusual person.

12. Never talk over the child's habits or faults with others in his hearing. Never use them to humiliate him before other children or grown-ups. Treat him with the same consideration you would show for the feelings of an adult.

13. Last, and most important, don't stop loving the child, or, if you can't love him, realize that he is vitally handicapped until someone does love him, and make allowances.

The first rule covers Prevention: the rest may be classified as Treatment.

WORK OF RELIANCE WOMAN'S CLUB

The Reliance Woman's Club is putting on a Child Health Conference the last week of August. Doctor Farah and Nurse Mabel Glasgow of the Division of Infant Welfare and Child Hygiene, State Department of Health, are providing the professional service. Members of the Woman's Club will visit the homes of the town, will invite mothers to bring their pre-school age children to the Conference, and will organize the meetings which will be held in Bungalow Hall. This is a splendid piece of work to be undertaken by this new Club.

THE KIDS ACROSS THE WAY

By Leslie Floyd

All-the-world in our street it used to up and say
That it wished something would happen to the kids across the way;
It used to wonder what in time their ma could be about;
It was driven quite distracted by that everlasting shout;
And the old man at the corner—he was surely given ranse—
Spoke darkly of policemen and the need of spanking laws.
Up and down the neighborhood, wherever they might play,
They were mightily unpopular—the kids across the way.

All-the-world in our street was mad enough to bite
About that sickly little Pearl that cried so much at night;
And the twins who'd hunt in couples and that freckled lanky girl—
They certainly were corkers to keep things in a whirl;
And the eldest boy who tramped the lawn and climbed the apple tree—
He pretty nearly martyred the old maid in number three.
It was not that they were vicious or meant to turn us gray;
They were simply little nuisances—the kids across the way.

All-the-world in our street it got an awful shock
When a state of blissful quietude descended on the block;
All that bunch of young ones were huddled on the stoop
Like a brood of frightened chickens when a hawk is on the scoop;
Their dad was down with typhoid; their mother had to nurse;
They hadn't any kinsfolk; they'd mighty slender purse.
Between a state of quarantine and doctor's bills to pay,
Things were looking pretty ugly for the kids across the way.

All-the-world in our street it rose up in its might;
It didn't stop to sermonize; it didn't pray for light;
But Mrs. Thompson took the twins and Mrs. Jones the girl;
And the old maid pretty nearly fought for sickly little Pearl;
And the old man at the corner descended on the throng
And told 'em where they got off at; he pitched it hot and strong!
Then having thus provided 'gainst emotional display,
He marched off with the oldest of the kids across the way.

All-the-world in our street has lots of common sense,
But it surely didn't show it in the matter of expense;
Through all that dreary battle in the house across the way
The mother lacked for nothing that could help her win the day;
The old maid cured the baby with some tried, old-fashioned plan,
And there never were such cronies as that kid and that old man,
Now since we know them better—having had them home to stay—
There isn't half the kicking at the kids across the way.

Already Done

The blushing bride-elect was rehearsing the ceremony that was about to take place.

"I shall expect you to give me away, dad," she said to her fond parent.

The latter looked up nervously from his paper. "I'm afraid," he murmured, "I've done it already. I told Herbert this morning that you had a disposition like your mother's!"—Exchange.

Smiles

"What is the secret of success?" asked the Sphinx.
"Push," said the button.
"Take pains," said the window.
"Always keep cool," said the ice.
"Be up-to-date," said the calendar.
"Never lose your head," said the barrel.
"Make light of everything," said the fire.
"Do a driving business," said the hammer.
"Aspire to greater things," said the nutmeg.
"Find a good thing and stick to it," said the glue.
—Exchange.

Their Real Reason Revealed

The Scotch bagpipe players were breaking the atmosphere into thousands of fragments with their instruments.

"Why do those pipers keep walking up and down as they play?" asked one stranger of another.

"I don't know," was the peevish answer, "unless it makes them harder to hit."

English, a la Sweden

An official of the Board of Health in a certain town notified a citizen that his license to keep a cow had expired. In reply the official received this epistle:

Monsieur Bord of Helt—I just got your notis that my licens to keep my cow has expire. I wish to inform you, M'sieur Bord of Helt, that my cow she beat you to it—she expeir t'ree weeks ago. Much oblige. Yours with respeek, Pete."

The Only Way

"The women of today are able to meet any situation," said a clerk in the general manager's office at Detroit.

"If I were to kiss you, how would you meet the situation?" asked her friend.

"Face to face," she replied.—Exchange.

Mistaken Identity

"As I was crossing the bridge the other day," said an Irishman, "I met Pat O'Brien. 'O'Brien,' says I, 'how are you?' 'Pretty well, thank you, Brady,' says he. 'Brady!' says I, 'that's not my name,' 'Faith,' says he, 'and mine's not O'Brien.'

"With that we again looked at each other, an' sure enough it was naither of us."

It Was

She: "Do you remember when you were first struck by my beauty?"

He: "I think so. Wasn't it at the masked ball?"
—Boll Weevil.

Meaning of Dumb-bell

"Did you post those two letters I gave you, Norah?"

"Yes'm; at the postoffice. But I noticed that you'd put the two-cent stamp on the foreign letter and the five-cent stamp on the city one."

"Oh, dear, what a blunder!"

"But I fixed it all right, ma'am. I just changed the addresses on the envelopes."

—From Everybody's Magazine for July.

Pa Not Particular

A married couple had engaged a cook. She was pretty as a picture, but her cooking was terrible, and one morning the bacon was burned to such a crisp as to be wholly inedible.

"Dear," said the wife to her husband, "I'm afraid the cook has burned the bacon. You'll have to be satisfied with a kiss for breakfast this morning."

"All right," responded the husband gruffly. "Call her in."—American Legion Weekly.

Good Diplomacy

A guest of a small Southern hotel was awakened early one morning by a knock on his door.

"What is it?" he called drowsily without getting up.

"A telegram, Boss," respounded a negro's voice.

"Well, can't you shove it under the door without waking me up so early?" the man asked irritably.

"No, Suh," the darky answered, with his mind on a tip, "it's on a tray."—Selected.

Purple

Miss Graham: "I'm worried about my complexion, doctor. Look at my face."

Doctor Pills: "My dear young lady, you'll have to diet."

Miss Graham: "Oh, I never thought of that! What color do you think would suit me best?"—Exchange.

Wanted to Collect

Irate customer: "I bought a car of you several weeks ago, and you said if anything went wrong you'd supply the broken parts."

Dealer: "Yes."

Irate customer: "I'd like to get a nose, a shoulder blade and a big toe."—Manitoba Free Press.

Some Daisy!

He was an earnest minister, who one Sunday in the course of a sermon on the significance of little things, said: "The hand which made the mighty heavens made a grain of sand; which made the lofty mountains made a drop of water; which made you made the grass of the field; which made me made a daisy."—Selected.

Pat Won

An Irishman, an Englishman and a Scotsman were all out of work. They traveled together in search of employment, and came to a farmer's house and applied. The farmer said whoever could tell the biggest lie could have a job. The Englishman said he went to the North Pole in a tub. The Scotsman said he swam to the South Pole. The farmer then asked Pat, "Well, Pat, what is your lie?"

"Begorra, sir," said Pat, "I believe these lads," Pat got the job.—Winnipeg Tribune.

The Only Way

"Johnny," said the teacher sternly, "I want you to tell me where you learned to swear!"

"Aw, I just picked it up, teacher," said Johnny. "But if you wanta learn I can't teach you none. You gotta go out where it's bein' done an' listen until you get it!"—Richmond Times-Dispatch.

GIRLS' HEARTHFIRE CIRCLE

Conducted by Bess Mac.

"Friendships thrive in fullest measure
Round our Hearthfire's ruddy glow."

In September we start to School or we start back to School—and if we are not doing either I hope we are thinking about it and planning—sometime—to go. It was a joy, this summer, to meet members of the Faculty of our State University, to learn about the tremendously interesting things in store for those of us who are going there—as it was interesting to learn that more than half of the students are earning whole or part of their expenses and that the University Faculty gives all possible assistance to students who must help themselves. Here are some interesting Schooltime Suggestions from one of us who has just graduated.

SCHOOLTIME SUGGESTIONS

After a pleasant vacation even French verbs and Geometry have their charm.

Better plan on taking the hardest courses all along the way instead of saving the bugbears for your Senior year. The last year should be the best. Make it so!

If you are fortunate or wise enough to have learned typing and shorthand during your High School course your College work will be simplified. Also you will find many opportunities to use this knowledge in adding to your allowance. If you are still a High School girl—a word to the wise is sufficient.

An interest in folks and a pleasant smile make far more friends than a frown and a treacherous tongue.

Snap into it at the first class and examinations will hold no terrors.

It may be interesting to know all about the film celebrities and to read various periodicals, but the reading lists recommended by the English Faculty are worth-while, and a taste for good literature will enrich your entire life.

Money is such a small matter after all. It does give comforts and pleasures, but a singing heart is worth far more.

A charming wardrobe is a joy forever, but a schoolgirl doesn't need to be attired like a movie star in order to write good English themes. The Classroom was never intended for a fashion show. Incidentally, simplicity indicates good taste.

Your allegiance belongs to your school.

Be a friend to each schoolmate, please the Faculty by daily effort, fight for victory, and strive to make each school activity a success.

If you conquer each little obstacle you will someday realize that you are able to attack big problems with the same success.

SMILE

The sunniest skies are the fairest,
The happiest hours at best;
Of all life's high blessings the rarest
Are fullest of comfort and rest.

Though Fate is our purpose denying,
Let each bear his part like a man,
Nor sadden the world with his sighing—
'Tis better to smile if we can.

Each heart has its burden of sorrow,
Each soul has its shadow of doubt,
'Tis sunshine we're yearning to borrow
True sunshine within and without.

Then let us wear faces of pleasure
The world shall be happy to scan
And add to the wealth of its treasure—
'Tis better to smile if we can.

OUR GIRL SCOUT CAMP

New Fork Lake

"Uphill" Table

"All of Us"

The Owlette Tepees

Tepee

The Robber's Cabin

Dr. Nelson's Nature Study Class

Now dance we a measure
Said young
Lochinvar"

Bird Hunt

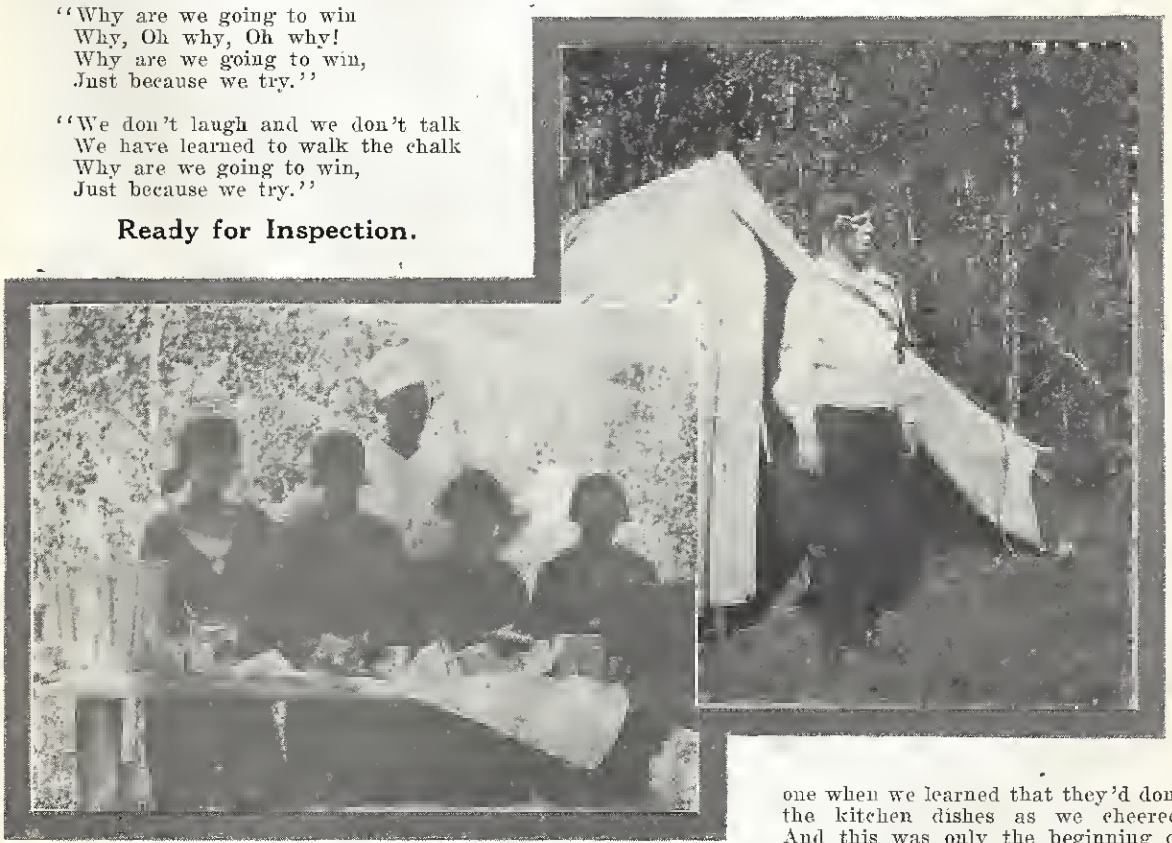
The Girl Scout Camp

Came G-S-A, G-S-A, rah, rah, rah for the G-S-A.
G-S-A, G-S-A, rah, rah, rah for the G-S-A,
chanted by sixty-six Girl Scouts as, Saturday evening, August 2nd, we realized that the last evening at Camp had come—and a long, long "pep march" line was started round the supper tables. First came the Owlettes, famous for songs, for Jessie Chipp, a speechless humorist and—perhaps for ghost parades. They were immediately followed by the Beavers led by Lena Anselmi, their unquenchable Cheer Leader, famous for their picturesque totem pole, for their love of K. P. and of rest hour spent in officers' tents. Came from their table "Uphill", Troop I, the Tippi Canoes and Pathfinders singing,

"Why are we going to win
Why, Oh why, Oh why!
Why are we going to win,
Just because we try."

"We don't laugh and we don't talk
We have learned to walk the chalk
Why are we going to win,
Just because we try."

Ready for Inspection.



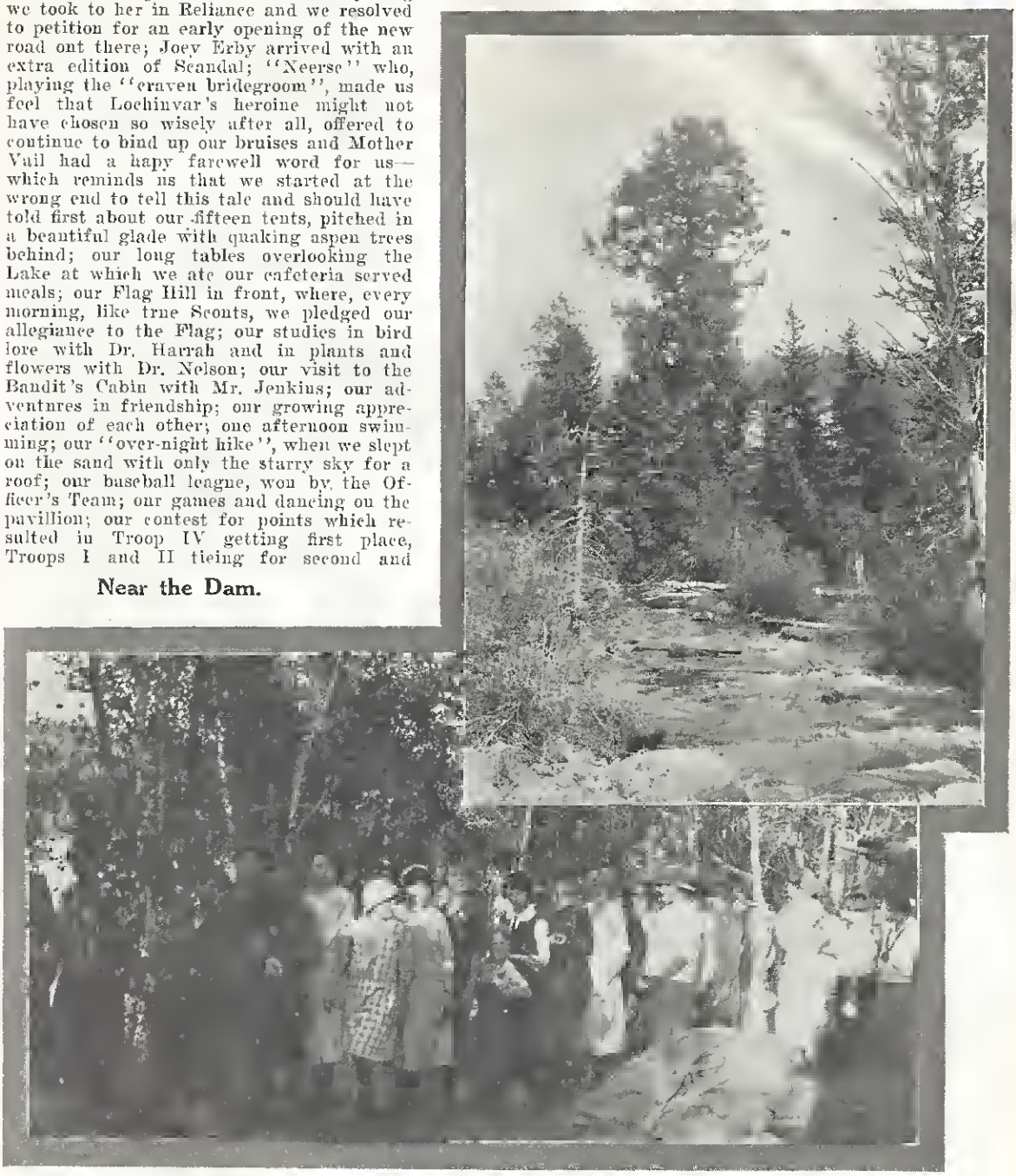
Our Turn as Cook's Asssitants.

Came from "Uphill' extension, Troops V and VI, the Tigers and Bears with Joey Erby and Mrs. Ebeling, much loved "mothers." Troop IV, the proud possessor of Mamie Asalia, Camp's Honor Scout, fell in; the officers and mothers recovering themselves took up the rear and, in and out, gathering the most staid officers and visitors as it gathered momentum, the march continued round the tables "Uphill", "Extension" and "Long" with its G-S-A, G-S-A, G-S-A until round and round its leader, Ruth Vail, it circled in one huge "wheel" and cheers old and new made the woods ring, all the friendly birds we'd discovered wonder and our new friends among the flowers open their petals to listen.

Cheers for all the Officers by names unrecognizable as those belonging to the dignified folks who'd started with us two short weeks before—for "Lute Ish", for "Lute Myrna", for "Singer Dick", for "Freddy", for "Neerse" Glasgow, for "Mother Vail", for "Joe Erby", for "Baseball Gage", for "Downer and O'Donnell", for Doctor and Mrs. Nelson and Mrs. A. Ford of the University of Wyoming who were dining with us, for "Ice Cream Medill", for "Bells" for "Mother's Cakes", remembering Mrs. M. Medill's thoughtful gift of ice cream for everybody and the cakes Mrs. Bell had brought—and for Mrs. R. Ebeling, acknowledged "best sport" among the officers—and who but a New Fork Scout would recognize "Yea pants, yea mender, Yea, Yea, Pants-Mender!" as a cheer for the jolly "Mother of the Reliance Scouts. And then, with vim, came cheers for the best "eats" a camp ever had and for "Mac" so popular that even K. P. in his domain lost much of its terror; for Jack, his assistant and the Hub of a continuously rotating "Rotary Club"; for the "Cookies"—and an added one when we learned that they'd done the kitchen dishes as we cheered. And this was only the beginning of our "last night at Camp."

It was unanimously agreed that "Bon-Fire" COULD not close at nine, camp hour for Taps, but that, despite the need for an early reveille, we must have a long evening so, after the usual hour of dancing at the Pavilion, we took our places on the hillside slope, which made a natural amphitheatre round the "higher! higher! higher!" Camp Fire, for our program. We had Joey Erby's story; a stunt by the Pathfinders whose "stunt turn" it was; a story by Mamie Asiala of Troop IV; a dance by Gertrude Gilpin; a much apreciated message from Dr. Nelson; a story by P. W. Jenkins; group singing led by "Singer Dick" for whom we always "start on the first beat;" the reading of the second edition of "Scout Scandal", our Camp newspaper—and then the officers were called on one after the other to stand "before the Fire" and give us a word of farewell—and one after another they did so, mostly with humorous speeches but we could see that they felt as badly about the camp closing as we did. "Freddy" admitted having wanted a cowboy but said that if we'd ask her back she'd be glad to come without hope, or prospect of one;

Mrs. Ebeling promised to mend anything we took to her in Reliance and we resolved to petition for an early opening of the new road out there; Joey Erby arrived with an extra edition of Scandal; "Neerse" who, playing the "craven bridegroom", made us feel that Lochinvar's heroine might not have chosen so wisely after all, offered to continue to bind up our bruises and Mother Vail had a hapy farewell word for us—which reminds us that we started at the wrong end to tell this tale and should have told first about our fifteen tents, pitched in a beautiful glade with quaking aspen trees behind; our long tables overlooking the Lake at which we ate our cafeteria served meals; our Flag Hill in front, where, every morning, like true Scouts, we pledged our allegiance to the Flag; our studies in bird lore with Dr. Harrah and in plants and flowers with Dr. Nelson; our visit to the Bandit's Cabin with Mr. Jenkins; our adventures in friendship; our growing appreciation of each other; one afternoon swimming; our "over-night hike", when we slept on the sand with only the starry sky for a roof; our baseball league, won by the Officer's Team; our games and dancing on the pavillion; our contest for points which resulted in Troop IV getting first place, Troops I and II tieing for second and



Near the Dam.

"Seconds" in the Mess Line, the Day Mothers' Cakes Came—Thank You, Mothers.

Troop 1 of Reliance getting third with Mamie Asiala of Troop IV as HONOR SCOUT; our swimming meet for girls who could not swim before going to camp and our marvelous Bon-Fire programs when the troops took turns entertaining and when everything from a dramatization of the ballad "The Froggies Courting" and "O Young Lochinvar is come out of the West," a trial of the suspected originator of the Ghost Parade and "We're out for Gore"—to the French-English wooing scene from Shakespeare's Henry V and talks from Professor Harrah and Dr. Nelson and Mrs. Dickinson's "Dearie"—which takes us back to the Officers saying their farewells before the Fire because "Singer Dick" who was called last sang her's with "When we come to the end of a Perfect Day" and not a few of us had wet eyes as we said our last "Good Night."

Reveille came at five the next morning. Colors was at 5:30 and breakfast at six o'clock. Then tents and bedding rolls were quickly put in order for the trip home. At ten Dr. Nelson talked at a Scout Service which lasted half an hour—at 10:30 we felt pretty solemn as we lowered our Colors for the last time, marched down Flag Hill to "formation" and Mrs. Vail declared Camp officially closed.

And so ended our first organized Girl Scout Camp, an adventure in organization, in our community's interest in its girls, in self-reliance, in loyalty, in trustworthiness, in sportswomanship, in doing without and in abundance—an adventure into a new field abundantly justified.

FAMOUS SAYINGS AT CAMP

"My neck is suuburned."—Margaret Chambers.
"I never say auything funny."—Jessie Chipp.
"I can't hike, my feet are blisters."—Louise Page.
"I have reasons for dressing up tonight."—Thelma Phillips.
"Where's the ambulance?"—Enid Stark.
"Where's my wandering boy tonight?"—Martha Anderson.
"Let's yell for the Owlettes."—Ruth Vail.
"Oh, dear, every book is out—I'm waiting for Seventeen."—Anybody.
"Where's Mrs. Ebeling?"—The torn and tattered.
"Has anyone seen my picture?"—Elizabeth Pratt.
"Report to me after inspection."—Nurse.
"Is my nose beginning to blister?"—Joe Hay.
"Oh, bunk! Put it over the plate, can't you?"—Esther Mathis.
"And this is the truth, girls."—Lillian Clementsen.
"Erby is the nicest 'mother' in Camp."—Bell Bajot, Alice Reams.
"I'm NOT a fatty."—Ruth Redshaw.
"Ruth, don't forget to look for beetles before we get in tonight."—Mary Elias.
"Let's put 'Lazy' on."—Norma and Marie.
"I wanta cow-boy."Freddy.
"Where's my scout knife?"—Maxine.
"Tell us a ghost story."—Everybody.
"I'll mend it."—Mrs. Ebeling.
"Um tu whee! tu-whee!"—Chester and Powell.
"Is there any reason for you girls talking? Good night, Girls."—Miss Mac.
"We live at the hospital."—Ione Parr.
"What'll we yell now?"—Sheik Anselmi.
"Willow State! Willow State!"—Doctor Nelsou.
"Not a potato!"—Mac.

—New Fork Scout Scandal.

THE THRIFTY ONE

"I felt so badly yesterday,"
Declared the little bride,
"I felt so badly yesterday,
I sat me down and cried."

A friend down at the office
Had given John a squash;
I peeled it rouud and round and round,
And cut it up, but losh!

'Twas full of little cobwebs
And hollow at the core
I had to lift it carefully
And throw it out the door.

"I felt so badly yesterday,
Oh dear!" She sighed once more,
I felt so badly yesterday
I hied me to the store.

I brought me home another
To cook it I was fain—
'Twas empty like the other!
I cast it in the lane.

To raise a hollow squash
And sell it is a sin!
How can a housewife thrifty be
When she's so taken in?

To think that anybody
Is so imposed upon!
Ah me! Alas! Alack!
I'll certainly tell John."

When we say "Thank You"—by all means let us make it ring true. "Thank You" should truly express the hearty appreciation of the "Thanker".

Children's Page

Dear Boys and Girls:

We want to hear about your vacations. Where did you go? What did you do? What did you do at home if you spent your vacation at home? Did you find new kinds of flowers or birds? Did you make new friends? What did you take home from somewhere else? Did you keep your school health rules during vacation? What books did you read? Did you have any adventures? In the August magazine we told you that we would give a prize for the best two hundred word story about vacation. We will close the contest on the niuth of September.

THE MAGPIE AND HER CHILDREN

Said a Magpie to her children: "It's high time you learned to look for your own food; it is indeed."

And with that she turned the whole lot of them out of their nest and took them into the fields.

But the Magpie's children didn't care about that.

"We'd rather go back to our nest!" they cried. "It's so comfortable to have you bringing our food to us in your beak!"

"I dare say!" said their mother. "But you're big euough to feed yourselves. I was turned out of the nest when I was much younger, I can tell you that!"

"But people will kill us with their bows and arrows," said the young magpies.

"No fear of that!" replied their mother. "People can't shoot without taking aim, and that takes time. When you see them raising their bows to their faces, ready to draw, you must fly away!"

"We might do that," said the children; "but if some one were to throw a stone at us, he wouldn't have to take aim."

"Well, you'll see him stooping down to pick up the stone," said the old Magpie.

"But supposing he carries a stone in his hand, ready?"

"Why, if you're sharp enough to thiuk of that," said their mother, "you're sharp enough to take care of yourselves!"

And with that she flew away and left them.

MARS, THE RED PLANET

Mars, known as the red planet, fourth in distance from, and like our earth, revolving around the sun in a circle some 141 million miles distant, came quite close to us, as astronomical distances go, on August 22nd last. The average distance from our earth to Mars is about 100 million miles; each 15 or 17 years it slips up to withiu 45 million miles of us, but on August 22nd it was but 36,400,000 miles away, closer than it will come again in a hundred years.

This little planet has intrigued astronomers since 1650 when red disks and white polar ice caps were discovered by some patient watcher of the skies. In 1877 an Italian astronomer, Schiaparelli, of Milan, working with an 8½ inch telescope, discovered and mapped a series of lines that are now thought to be water canals, used to lead the water formed by the melting of the polar ice caps down to the central portion of the planet where the temperature makes life possible. Subsequent studies and photographs made with the aid of the big 100-inch telescopes of our day have developed much that is new and interesting. New canals develop each year, they all run in straight lines and are bordered with dark bands that may be trees or vegetation such as an aviator would see when looking down on an irrigating ditch carried through a desert.

Mars has a day but forty minutes longer than ours, but its year is nearly twice as long, due to the greater distance and slower speed traveled than that of our earth as it revolves around the sun. While we go around the sun in 365 days, Mars consumes 687 days, therefore, their four seasons are nearly twice as long as ours. Just think what time a Mars summer affords for scouting by girls and boys, but then think how long the winter school term must be.

Scientists marvel at the rapidity with which new canals appear on the surface of Mars, but when we remember that the "pull" of gravity, what we call "weight," is perhaps only about one-eighth on Mars what it is on the earth, we may find the answer there. Weight is after all merely a relation that exists between the mass to be lifted and the earth or planet on which the force stands. If a man could lift 200 pounds on our earth he could, all other things being equal, lift 1,600 pounds on Mars.

Some years ago scientists thought they detected a system of signals, flashes of light coming to us from Mars, and now the world's astronomers are getting together and comparing their findings, gained through the use of the great telescopes of today during the close-up period in August last. A few days ago our Secretary of Commerce, Herbert Hoover, was asked to quiet all radio sending for a short period in order that we might listen in for signals from Mars. Who knows, Mars may have a people and a civilization older than ours. It may be like the moon, a dead planet, one without life-giving air and water. If it has people of its own we can wonder what they are like; do they use food of the character of ours? What do they wear? Have they autos and flivvers, and if so, do they stop for the railroad crossings?

All this is conjecture, but we can depend on the men who found the North and South Poles after years of trial and suffering, who discover stars so far away that it takes a million years for their reflected light to travel to the earth, to get the facts. Trust little puny man with all his faults to get there. Perhaps the existence of the "divine spark" in man is best evidenced by the fact that, gradually but unerringly, he is conquering time and space, the infinite.

BIRTHDAYS

Of all the days that one most dear
That comes and passes by,
Have you a birthday every year?
How funny, so have I!

A splendid day it is for me,
For then I am so great,
I ask my playmates all to tea
And go to bed quite late!

What lovely cakes my Mother makes,
And sweets and jellies too!
For days before she cooks and bakes,
Does your mama for you?

When tea is over, then we play
The games we like the best;
And I am king of all that day
In all my finest dressed.

My parents give me lots of toys,
And other people too,
And wish me nothing else but joys
The whole of my life through!

But tell me truly if you can,
Why, when the day is o'er,
I am a whole year older than
I was the day before.

ONE'S OWN CHILDREN ALWAYS PRETTIEST

Once upon a time a man went out shooting in a forest, and there he met a woodcock.

"Pray, don't shoot my children," cried the woodcock.

"What are your children like?" asked the man.

"Mine are the pretiest children in the forest," answered the woodcock.

"I suppose I musn't shoot them, then," said the man.

When he came back he carried in his hand a whole string of young woodcocks which he had shot.

"Oh, dear, oh, dear! Why, you have shot my children after all!" wept the woodcock.

"Are these yours?" said the man. "Why, I shot the ugliest I could find."

"Yes, yes," answered the woodcock, "but don't you know that every one thinks his own children the prettiest?"

THE WIND

I saw you toss the kites on high
And blow the birds about the sky;
And all around I heard you pass,
Like ladies' skirts across the grass—
O wind, a-blowing all day long,
O wind, that sings so loud a song!

I saw the different things you did,
But always you yourself you hid.
I felt you push, I heard you call,
I could not see yourself at all—
O wind, a-blowing all day long,
O wind, that sings so loud a song!

O you that are so strong and cold!
O blower, are you young or old?
Are you a beast of field and tree,
Or just a stronger child than me?
O wind, a-blowing all day long,
O wind, that sings so loud a song!

—Robert Louis Stevenson.

Social Items

CUMBERLAND

Mr. and Mrs. Geo. A. Brown and son, Junior, spent a few days at Estes Park, Colorado, during the month.

The following persons have returned from delightful trips through Yellowstone National Park:

Mr. and Mrs. Lyman Fearn and family.
Mr. and Mrs. Thos. Dodds and family.
Mr. and Mrs. Thos. Edwards and family.
Mr. and Mrs. Jas. Rollians and family.
Mr. and Mrs. David Edwards and family.
Mr. and Mrs. Jno. Gibbs.
Mrs. Isabella Gibbs.

Born to Mr. and Mrs. Pope Walsh, July 17th, a daughter.

Mr. and Mrs. Clem Eyer are the proud parents of a baby girl, born July 29th.

Mr. Joe Clark, formerly of Cumberland but now of Denver, Colorado, was married July 6th to Miss Kethia Park of Longmont, Colorado. They will make their home in Denver.

The marriage of David Ferrel Wilde and Miss Lavine Blacker, both of Cumberland, was solemnized July 17th, at the home of the bride's parents, Bishop Geo. Wilde, father of the groom, officiating.

Mr. and Mrs. W. W. Williams and family, Mrs. Axel Johnson and family, August Bakka, Mrs. William McLean and family and Mr. Seth Sekerlaund spent a pleasant day at Ideal Beach during August.

Mr. and Mrs. Jas. Ruffley spent a few days at Salt Lake City during the month of August.

Miss Olive Draycott has accepted a position in Ogden.

Mr. and Mrs. Bert Williams have returned after spending a two weeks vacation in California with Mrs. Williams' mother.

Mr. and Mrs. Joe Birleffi and family have returned after a trip through Yellowstone Park.

Dr. P. M. McCrann spent a few days in Salt Lake during the month.

The little friends of Glen Boan gave him a surprise July 29th, in honor of his eighth birthday.

Mr. and Mrs. Clarence Johnson and family spent a few days at Salt Lake.

Mrs. Joe Clark, formerly of Cumberland but now of Rock Springs, visited her many friends here while enroute for a vacation in Yellowstone Park.

Little Melba Serafield is visiting her grandfather, Mr. John Bagnall.

Miss Ruth Dodds, who has been visiting her brother, has returned to her home in Laramie.

HANNA

Mr. and Mrs. John Penny and children, Mr. and Mrs. J. W. Jackson and son, and Mr. and Mrs. Colin Hodgson and daughters spent Sunday, July 21st, in Laramie.

Mr. Joseph Lee, Mark Lee, Belle Lee and Margaret Jackson returned Saturday, July 12th, from a visit in Ringo, Kansas.

Chas. Wist and family, Mr. and Mrs. Wm. Johnson and baby and the Annala family returned from a visit in Colorado.

Mr. and Mrs. Geo. A. Brown and son of Cumberland were visiting relatives in Hanna.

Mr. and Mrs. J. Parr of Rock Springs came to see Mrs. Jane Finch during her illness. Mrs. Finch is a sister of Mr. Parr and all are well known here.

Jack Dexter caught a four and one-half pound trout the other day and, lest his friends doubt his story, put it on exhibition at the Store.

Mr. Johnny Jack was a Laramie visitor Sunday, July 21st.

Chas. Brooks has been very ill with an infection of the throat.

John and Francis Wilkes have returned to Hanna after a two months visit in Sheridan.

Mr. Wm. M. Nelson, who was chosen the only delegate for the state of Wyoming to attend the 36th annual session of the Loyal Order of Moose in New York City, came home Tuesday, August 5th. Mr. Nelson reports a fine time while away and had the pleasure of hearing a very fine lecture given by the original Will Rogers of "movie fame."

Mrs. Wm. Nelson and Miss Pearl returned from Denver, August 5.

Mr. and Mrs. Chas. Maxson have booked passage on the R. M. S. Baltic, sailing the first part of September for Liverpool.

George L. Jackson and a party of friends from Denver formed a pleasant group while fishing in Pass Creek on the Hat ranch in July.

Mr. John R. Jackson with his wife and daughter, Esther Belle, returned from a short visit in Denver, July 13th.

Howard and Edith Penny are visiting with their aunt, Mrs. Groves, in McFadden.

The "Dancing Pavilion" recently opened on the ball-ground seems to be quite a novel entertainment for our very many young folks.

Mr. and Mrs. J. W. Jackson and son, and Mrs. S. Dickinson and Ray Barton spent the day at the Hat ranch July 15th.

Nels Sargeant, an old time resident of Carbon and for many years the blacksmith, passed away at the home of Mr. John Evans at Elk Mountain. Mr. Sargeant was about 75 years old and had been ill several months. The Independent Order of Odd Fellows took charge of the funeral and the body was laid to rest beside that of his brother in Carbon cemetery. A cortege of old timers made up the funeral procession, for Mr. Sargeant was well known and respected.

The infant son of Mr. and Mrs. A. Gaskell, born July 5th, has been named Rees.

Mr. and Mrs. E. R. Henningson are the proud parents of a boy born July 28th.

Mr. and Mrs. John Penny and Howard and Edith Penny left recently for a trip to Yellowstone Park.

Mr. Lynwood Smith, Mrs. R. Smith and Mrs. J. Spencer accompanied by Mr. and Mrs. Robert Norris and family and Mrs. Massey, left Hanna for Yellowstone National Park during August.

Mr. and Mrs. R. Cardwell, "Uncle Bob," expects to leave shortly for Yellowstone Park.

Mr. and Mrs. J. Maxson returned from a visit in Denver a few days ago.

A new gymnasium is being erected in connection with the High School. Hanna is very proud of this addition to its school equipment.

Mr. and Mrs. S. Dickinson and Mr. and Mrs. Joe Woods left Thursday for a visit in California.

Mrs. Evan Evans is keeping house for Mrs. J. Woods until she returns from her vacation.

Mr. Robert Williamson of Denver is visiting relatives in Hanna.

The Colored people have purchased the old M. E. Church.

RELIANCE

Mr. C. B. Graham and family are visiting in Utah, going overland in their car.

Mr. Chas. Young and family are enjoying a visit in Idaho.

Mrs. W. J. Wilson is visiting her parents in Twin Falls, Idaho.

Mr. and Mrs. Jas. Jones have left for a trip through Colorado in their car.

Mr. and Mrs. Dougal McWilliams are visiting in Salt Lake City.

Mr. and Mrs. E. L. Emery are visiting in Denver and Cheyenne.

The members of the Woman's Club held a picnic at Six Mile Spring on August 15th. All report a good time.

Mrs. A. L. Wilson and daughter are visiting in Salt Lake City.

Mr. and Mrs. Joe Palomino are the proud parents of a baby girl.

The Reliance Baseball Club played the Rock Springs Club on Sunday, August 9th, Reliance winning by a score of 11 to 3.

Mr. and Mrs. Harry Fitchett, Mrs. Hugh Harrigan and Mr. Neal Harrigan have returned from a fishing trip in the Big Sandy Openings and report the fishing good.

Mr. and Mrs. L. J. Sery have returned from a visit in Salt Lake City.

Mr. Lenord Hansen has returned from a two weeks fishing trip on the Green River.

Wm. Banks and Wm. Greek have returned from a visit in Cokeville, Wyo.

Jas. Zelenka has been displaying a big trout weighing 6½ pounds which he caught in the Green River.

Mr. Mike Ortar, who is in the Wyoming General Hospital suffering from a broken leg, is reported as getting along very nicely.

Mr. Joe Miller, Sr., has been sick the last week with the flu.

Mr. and Mrs. Wm. Stark and J. H. Winkler have returned from a trip through the Yellowstone Park.

Mr. Richard Gibbs and son, William, have returned from a trip through Southern Utah, returning by way of the Teton Mountains.

Mrs. John Holmes and daughter, Edith, have returned from a visit with her son, Harry, in Utah.

About 75 members of The Rocky Mountain Coal Mining Institute paid a visit to Reliance on August 8th, 57 of this number going into the mine to see the Joy Mechanical Loaders in operation.

Mr. Chas. Gottschalk of Indiana has been making an inspection of Reliance mines during the month.

ROCK SPRINGS

John Lewis made a trip to Eden Valley on Tuesday, August 5th.

Thos. Whalen, night boss in No. 4 Mine, and his family were visiting in Salt Lake City the latter part of July.

Matt Medill spent August 4th and 5th on a fishing trip in the Pinedale country and reports a good catch.

Chas. Gregory, Foreman at No. 2 Mine, and family, spent the first week in August on an auto trip to Saratoga and other southeastern parts of the state.

Mrs. H. J. Harrington's sister, Mrs. Lyman Fearn, of Cumberland, has been visiting here the past week.

The sister of John E. Jones was visiting with him the first part of August.

Stanley Preece, operator at the Power Plant, was up at Eden the first of the month and obtained his limit of sage chickens.

Dr. Arbogast's daughters, Ruth and Elda, of Denver, have been here the past two weeks and also visited the Yellowstone National Park before returning to their home.

Thos. Barker, age 71 years, was instantly killed in No. 7 Mine on August 8th, 1924, by a "hung shot." Mr. Barker had followed coal mining for the past forty years.

Wm. McIntosh, and family of Superior, were here to attend the funeral of Thos. Barker.

G. L. Stevenson spent one day the first of the month hunting sage chickens out South.

Marco Balen has returned to work in No. 4 Mine after a two months illness.

Harry Clark, Jr., and family spent the latter part of August on a camping trip in the Jackson Hole country.

F. B. McVicars is again on the job after a month spent at New Fork Lake at the Camps of the Boy Scouts and Girl Scouts.

The new lamp-cabin, for the handling of the safety lamps, is being erected near the Power Plant.

Mr. White has completed an inspection of the Rock Springs Mines.

The family of Eliga Daniels has returned from a month's visit in Logan, Utah.

Mr. C. P. Wassung has received word from his son, George, that he is now located in Casper.

Hans Hansen and family visited with relatives at Saratoga the first part of the month.

The old hoist-house at No. 10 Mine is being moved near the machine shop, to be used as an automobile repair shop.

Gavin Young and C. E. Moffitt have returned from a fishing trip on the Sweetwater.

Guy Moffit left on August 15th for an automobile trip through the Yellowstone National Park.

Mr. and Mrs. Carl Johnson, of "E" Plane, are enjoying a two weeks visit with relatives in Denver.

Port Ward, Foreman at "E" Plane, has returned home after having spent a month in Winton assisting with the installation of the new water works system at that place.

Mr. D. E. Meacham's two sons of Salt Lake City have been visiting him for the past ten days.

J. V. Macdonald's son Fred, has again returned to school, after having spent his summer vacation with his parents.

A. H. Anderson has gone to San Diego, Cal., for a two weeks visit. Mrs. Anderson, who has spent the summer in California, will return home with him.

Miss Sarah Williams is the new assistant bookkeeper at the Company Store.

Thos. Armstrong has returned from a trip to New York City where he attended the convention of the Moose Lodge. Tom says it is a little too crowded in that berg for him.

Mr. and Mrs. Carl Carlson attended the W. O. M. picnic held at Green River on August 10th.

Mr. and Mrs. F. L. McCarty spent Sunday visiting with Banks Brady at Eden Valley.

R. J. Buxton and family left on August 10th for an auto trip through the Yellowstone National Park.

Dave Abrahams and family have left for a two weeks visit in Idaho and Utah.

Thos. Kruger's brother, Joe, who recently came from Tono, Wash., has again been admitted to the Wyoming General Hospital for treatment.

Ed. Brooks, tracklayer in No. 2 Mine, injured his foot when his car turned over on August 10th, when returning from a trip to Pinedale. He is now able to be around with the aid of a pair of crutches.

J. J. Kaufman, our automobile mechanic, has spent the past ten days in Idaho Falls, Idaho.

Joe Wise and family are visiting with relatives and friends in Cheyenne and Denver.

C. R. Shuping, master mechanic at Winton, made us a pleasant call this week. "Shupe" boasts of having one of the fastest motorboats in the western country and says he can prove it. If any one doubts his word just go to Fremont Lake where a demonstration will be given free of charge.

Thos. M. LeMarr has again returned to work after having been confined to his home the past two months with rheumatism.

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Mon.-Tue., Sept. 15-16.
RUDOLPH VALENTINO
—in—
"MONSIEUR BEAUCAIRE"

Thu.-Fri., Sept. 18-19.
Jackie Coogan
—in—
"THE BOY OF FLANDERS"

Sun.-Mon.-Tue., Sept. 21-22-23.
James Cruze's Production,
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SUPERIOR

Mr. and Mrs. Hanking, Mr. and Mrs. Wylam and Mr. and Mrs. Robinson motored to Fort Bridger for a picnic and to visit the group of boys and girls who were up there on a camping trip.

Mr. Kenneth Darling has taken the position as bookkeeper since the departure of Tom Jones.

Mrs. Wm. Ferrel and daughter, Louise, were in Salt Lake visiting friends.

Mr. Rudolph Prevedel and family, Mr. Frank Avenzini and Miss Florence Menghini toured through Yellowstone National Park last month.

Mr. and Mrs. Wm. Ellis have gone to Denver until Mr. Ellis regains his good health.

Mrs. Clement Moore has returned after a short visit in Ogden.

Mr. and Mrs. Ernest Swanson are the proud parents of a baby girl, born July 12th.

Messrs. Felix and Edward Conzatti, Obie Powell and Wm. Ferrel were Superior representatives at the Grand Lodge meeting of Odd Fellows held in Laramie last month.

C. A. Murray and family have returned after a tour through Yellowstone Park and Northwestern Wyoming.

Mrs. Jake McDonald has returned after a month's illness in the Wyoming General Hospital in Rock Springs.

The new Superior High School is now under construction, and should be ready for use in November.

The Ladies of the L. D. S. Society gave a baby shower in honor of Mrs. Harris at her home on July 10th.

Helen Lake, former Superior resident, was here visiting friends.

Mrs. Margaret Brown of Salt Lake is a new clerk in the Union Pacific Store.

Mr. and Mrs. Gean Corrigan of Reliance were here visiting Mrs. Corrigan's sister, Miss Fannie Malmburg.

Mr. and Mrs. Otto Winkler have returned to make their home here.

Mrs. Pat Nugent and daughter, Catherine, were in Rock Springs last Thursday.

Last Wednesday four different groups adjourned to the hills on marshmellow and wiener roasts.

Several of the L. D. S. Ladies gave a surprise party in honor of Mrs. Dick Maddaford, July 17th.

Wm. McIntosh, Ned Hanking, Wm. Ferrel, Felix and Edward Conzatti and families formed a touring party on which they spent two weeks touring through Yellowstone Park.

Catherine Moser, Hazel Hiner and "Shorty" Powell went to Ft. Bridger to visit the group of boys and girls who were on a camping trip.

Mrs. W. F. McDill entertained the Ladies' Guild, July 18th.

Jack, the infant son of Mr. and Mrs. Wm. Higging, has been very ill but is now slowly recovering.

Mrs. Sam Irons and daughter, Hilda, of Blazon, Wyoming, were here visiting friends.

Mr. John Lemon and family have returned from Washington where they spent their vacation. Mrs. Reynolds returned with them.

Messrs. Paul Pecolar, Bert Sandburg, Archie Smith, R. G. Hood and families motored to Kent's Ranch last Sunday.

The Ladies Guild gave a picnic out at the Corrals last Tuesday. Three teams and wagons were furnished to them by the Company.

Many Superior Odd Fellows were in Rock Springs Tuesday to visit with the Odd Fellows Lodge of that city.

Mr. John Pecolar, Sr., is home after a two months visit with his daughter, Mrs. Tom Brierly in Graham, Colorado.

Mr. Wm. Tague and family have returned after a six months tour through Kansas, Oklahoma and Colorado.

Ed Swanson has gone to Melbourne, Wyoming, for a visit with relatives.

Mr. Matthews and son, William, and Mr. Wylam with his son and daughter, Roy and Veva, spent the week-end at Sweetwater on a fishing trip.

Mrs. F. J. MacCormac has returned to Denver after a visit with her son, Mr. J. Wylam.

The Ladies Card Club was held at Mrs. Laurence Hays' on July 24th. Mrs. Matthews won first prize, Mrs. Ben Caine, guest prize, and Mrs. Droege the consolation.

Miss Cahill left July 25th on a three weeks vacation.

Mr. Frank Jefferson, accompanied by Rock Springs friends, made a trip to Flaming Gorge July 27th.

Mr. and Mrs. James Kirk and daughter, Isabelle, Mr. and Mrs. John Stevenson and Mr. and Mrs. Blaney and family have returned from a three months trip to Oklahoma. Mr. and Mrs. Woods of Colgate, Oklahoma, returned with them.

Miss Nona Wallace and sister of Salt Lake City are visiting with Mrs. Harris.

Catherine Girard has left on a trip to Pocatello, Idaho.

Mr. and Mrs. John Stevenson, Mr. and Mrs. Tom Stevenson and Mrs. Reynolds spent Sunday in Green River.

Rudger Robinson's car was damaged quite a little when it turned over at "C" Flat last week.

Reverend Williamson, an Episcopal minister from Australia, is at Superior for two months. He holds services every Thursday and Sunday nights at the Union Church.

Mr. and Mrs. Tom Brierly have returned from Colorado.

Mr. and Mrs. Andrew Wilson leave Wednesday for Denver.

Mr. and Mrs. Percy Laverty have returned from Salt Lake.

WINTON

Friday afternoon, July 18th, a large number of the lady friends of Mrs. Gilbert Carter called at her home and gave her a surprise party.

Mrs. Murray Benson's home was the scene of a surprise party on Monday afternoon, July 21st, given by a number of her lady friends.

Lyda Emms gave a birthday party Friday, August 1st, and invited a number of her little friends to help celebrate.

On Wednesday evening, August 6th, twenty-four boys and girls responded to invitations issued for a birthday party given for Robert Henderson at his home.

A bunch of Lorenzo Elivs' friends stepped in on him unawares Monday evening, dancing and a general good time following.

The following persons were in attendance at the banquet of the Coal Mining Institute in Rock Springs Thursday evening, August 7th: Supt. and Mrs. Wm. Redshaw, Bernice Redshaw, Mr. and Mrs. Joe Liddell, Billy Liddell, Jesse Shuping, Mr. and Mrs. Gerald Neal, Mr. and Mrs. Ed Sutton, Mr. and Mrs. Jack Merrill, Mr. and Mrs. A. J. Kalinowski, Chas. Jones, James Kitchen, Alf Jackson, Mr. and Mrs. Wm. Reid and M. F. McEntee.

Tom Hom and family have returned from a two weeks fishing and hunting trip. We haven't seen the fish.

Mr. and Mrs. Messinger and children enjoyed a fishing trip during the month.

The Girl Scouts returned from New Fork Lake August 3rd. They say they would have liked to remain there for another two weeks.

L. B. Mauzy left for Denver to visit his mother.

Mr. and Mrs. J. T. Reese spent two weeks of July in Yellowstone Park.

Mr. and Mrs. Alfred Jackson are rejoicing over the arrival of a baby boy born August 9th.

Miss Mary Matischka has accepted a position as clerk at the Store.

Mr. and Mrs. Clifford Rose and baby visited at the home of Mrs. John Henderson Sunday, August 17th.

The big dance on August 15th in Megeath was a very enjoyable and successful affair. Many out-of-town folks were present. The excellent music was furnished by the Green River Island Park Orchestra.

Mr. and Mrs. Frank Elvis and two children and Mrs. Bob McClasky and children enjoyed a two weeks' outing fishing on Willow Creek.

Mrs. Ernest Besso and children have returned from Iowa where they spent two months visiting.

Tom Hanks and family spent their vacation of two weeks in Boulder and at Big Sandy Opening and on Green River Lake.

Mrs. John T. Reese is our new postmistress, having taken charge of the office August 1st.

Jed Orme and family returned the latter part of July from Yellowstone Park, where they spent their two weeks vacation.

Mr. and Mrs. Chris. Kunchuff are the proud parents of a baby boy born Wednesday, July 30th.

Flo Stench is visiting in Sheridan at the home of a brother.

Miss Lucille Finney is home again after attending the summer session at Laramie.

Mr. and Mrs. Wm. Russell, Mr. and Mrs. Louis Kalinowski and Mrs. Annie Thomas and son, Sidney, returned the latter part of July from Colorado.

Mr. and Mrs. Victor Emms and two children and Charles Roach motored to Salt Lake City the latter part of July.

Mrs. Sam Mason and children arrived on Wednesday, July 23rd, from Lava Hot Springs to make their home here.

Dr. and Mrs. Cody and Mrs. Cody's sister, Miss Cassidy, returned the latter part of July from Yellowstone Park.

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TONO

The semi-monthly picnic of the Merry Wives Club was held at Priest Point Park, Olympia, with Mesdames Brierly, Turnbull, Dahlstrom and Way as hostesses. Under the careful guidance of the lady chauffeurs all participants were returned to their respective firesides without mishap.

Mr. and Mrs. Robt. Murray, accompanied by the family of P. Oleson of Centralia, have left on an extended trip to Montana and the Yellowstone National Park.

Mrs. Bob Murray, President, Woman's Community Club, Tono.

Mrs. Henry Brierly was taken to St. Luke's Hospital at Centralia, successfully undergoing an emergency operation.

Miscellaneous showers for two new brides, Mrs. J. H. Nugent and Mrs. Jas. Jollo, were among the chief social events of the month.

The Tono representative for "Queen of Labor Day" festivities at Tenino, Miss Myrtle Brierley, is now leading all contestants by a comfortable margin. Miss Brierley is acting as relief clerk in the Store.

Wm. Hale and F. O. Nelson, the latter a former Storekeeper at Tono, made a trip to Montana and South Dakota via automobile to see if their land holdings were still intact. They report a pleasant trip and good roads when it doesn't rain.

Among those spending the week-end at Copalis Beach were the families of J. H. Megginson, Arthur Perry and Horace Gonderman.

Mr. and Mrs. John Notau are the proud parents of a girl born August 7th.

Chas. and Axel Dahlstrom, accompanied by their families, made the trip to Mt. Rainier. The outing was somewhat marred for Chas. on account of a broken camshaft, resulting in a 10-hour personally conducted repair job under adverse conditions.

Miss Ethel Lindula, a former resident of Tono, but now of Kalama, Washington, is spending the week visiting friends in the vicinity.

(Continued on page 25)

Sports Page

TEAM STANDINGS

Camp	Won	Lost	Percentage
Superior	6	1	.857
Reliance	6	2	.750
Rock Springs	3	4	.428½
Winton	0	8	.000

The past month's games leaves the strong Superior team still in the lead, with Reliance a very active second and Rock Springs a dangerous contender, while Winton, although out of the running for first place, is still playing a good brand of baseball.

The various managers of the league's clubs are to be congratulated for the way each team has been handled, and the players of each club have proved 100% loyal in support of their managers.

In order to extend the baseball season, another game was added to the schedule, which it is claimed will give each team an equal chance to prove its standing in the league.

Following is a list of the remaining games to be played this season:

August 24th—Winton at Reliance.

August 24th—Superior at Rock Springs.

August 31st—Rock Springs at Superior (2 games).

August 31st—Reliance at Winton.

September 7th—Superior at Reliance.

September 7th—Rock Springs at Winton.

McComa's Sluggers of Reliance.

A pretty husky looking bunch of ball players, and one that will make Superior step along to keep out of their way.

Results of a Goey-Duck hunt at Tono, Washington. Come on, you Wyoming Fishermen, bring on the evidence.

Residents of Superior taking a refreshing dip in their new swimming pool.

(Continued from page 24)

Messrs. Eggler and Becker are taking a vacation in Canada and expect to motor over the famous Georgian Loop.

Mr. and Mrs. E. C. Way have had as their house guests the parents of the former, Mr. and Mrs. C. F. Way of Lincoln, Nebraska.

Mr. Wm. Hann has been in attendance at the Mining Convention recently held at Rock Springs.

Recent forest fires in the vicinity of Tono have caused considerable damage to timber. The north plank road was burned out in a number of places, necessitating the rebuilding of some three hundred yards. The Johnson sawmill was completely destroyed and the pall of smoke still hangs over the little town.

The County Commissioners recently advised that a considerable sum of money was now available for road improvement out of Tono, and that the Tono-Bucoda road would immediately be put in first-class condition. This news is welcomed by high school students who are transported to Tenino daily, and it is hoped the improvement will result in economies in transportation.

Mrs. Bert Rau and Mrs. John Schuck are the latest converts to the ranks of "Bobettes."

The families of James Sheldon, Henry Puckett, S. Androsko, Joe Mossop and John T. Fusco report a pleasant outing at Westport.

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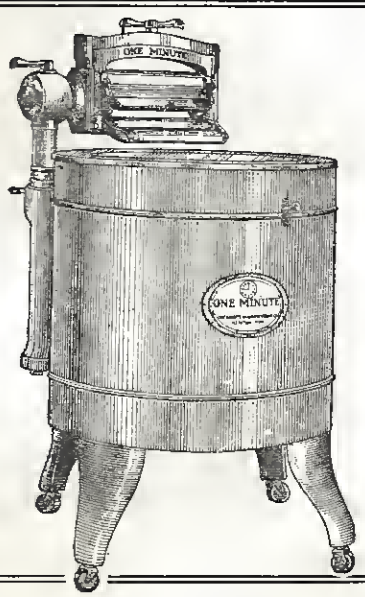

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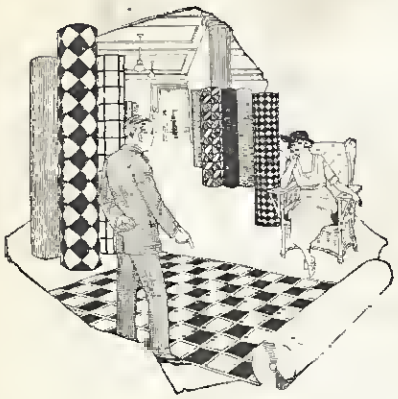
MINES WORK MORE IN FALL---



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